

**Abundance, Age, Sex, and Size of Chinook, Sockeye,
Coho and Chum Salmon Returning to Upper Cook
Inlet, Alaska, 2007**

by

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and

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August 2008

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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Weights and measures (metric)		General		Measures (fisheries)	
centimeter	cm	Alaska Administrative Code	AAC	fork length	FL
deciliter	dL	all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.	mideye-to-fork	MEF
gram	g			mideye-to-tail-fork	METF
hectare	ha			standard length	SL
kilogram	kg			total length	TL
kilometer	km	all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.		
liter	L				
meter	m	at	@		
milliliter	mL	compass directions:			
millimeter	mm	east	E		
		north	N		
		south	S		
		west	W		
		copyright	©		
		corporate suffixes:			
		Company	Co.	alternate hypothesis	H _A
		Corporation	Corp.	base of natural logarithm	e
		Incorporated	Inc.	catch per unit effort	CPUE
		Limited	Ltd.	coefficient of variation	CV
		District of Columbia	D.C.	common test statistics	(F, t, χ ² , etc.)
		et alii (and others)	et al.	confidence interval	CI
		et cetera (and so forth)	etc.	correlation coefficient (multiple)	R
		exempli gratia		correlation coefficient (simple)	r
		(for example)	e.g.	covariance	cov
		Federal Information Code	FIC	degree (angular)	°
		id est (that is)	i.e.	degrees of freedom	df
		latitude or longitude	lat. or long.	expected value	E
		monetary symbols		greater than	>
		(U.S.)	\$, ¢	greater than or equal to	≥
		months (tables and figures): first three letters	Jan,...,Dec	harvest per unit effort	HPUE
		registered trademark	®	less than	<
		trademark	™	less than or equal to	≤
		United States		logarithm (natural)	ln
		(adjective)	U.S.	logarithm (base 10)	log
		United States of America (noun)	USA	logarithm (specify base)	log _b , etc.
		U.S.C.	United States Code	minute (angular)	'
		U.S. state	use two-letter abbreviations (e.g., AK, WA)	not significant	NS
				null hypothesis	H ₀
				percent	%
				probability	P
				probability of a type I error (rejection of the null hypothesis when true)	α
				probability of a type II error (acceptance of the null hypothesis when false)	β
				second (angular)	"
				standard deviation	SD
				standard error	SE
				variance	
				population	Var
				sample	var

FISHERY DATA SERIES NO. 08-40

**ABUNDANCE, AGE, SEX, AND SIZE OF CHINOOK, SOCKEYE, COHO
AND CHUM SALMON RETURNING TO UPPER COOK INLET,
ALASKA, 2007**

by
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ABSTRACT

The estimated total run of sockeye salmon *Oncorhynchus nerka* to Upper Cook Inlet (UCI) in 2007 was 5.4 million fish. The total run estimate was comprised mainly of the commercial harvest of 3.3 million fish and the escapement estimate of 1.5 million fish into the 5 major river systems. The remainder of the total run estimate consisted of unmonitored escapements in “other” systems, and sport, subsistence, and personal use harvests. Commercial harvests and escapement of sockeye salmon that were sampled for sex, age, and length data represented 4.8 million of the returning sockeye salmon and will be referred to as the monitored harvests or escapements. Age classes-1.2, -1.3, -2.2, and -2.3 comprised 98% of the combined UCI commercial sockeye salmon harvests and monitored escapements. Age class-1.3 represented 3.3 million fish or 70% of the total monitored return, age-1.2 represented 0.61 million fish or 13%, age-2.3 represented 0.45 million fish or 9%, while age-2.2 represented 0.27 million or 6% of the total monitored return. Average length for the 4 major age classes ranged from 485 mm for age-1.2 fish to 579 mm for age-1.3 fish. Female sockeye salmon averaged 51% of the combined commercial harvests and escapements.

A total of 17,625 Chinook salmon *O. tshawytscha* were commercially harvested in UCI. The Upper Subdistrict eastside set gillnet harvest of 12,288 was the only harvest sampled and represented 70% of the total commercial harvest. Ages -1.1, -1.2, -1.3, and -1.4 comprised 98% of the harvest. Average length of the 4 major age classes ranged from 430 mm for age-1.1 fish to 954 mm for age-1.4 fish. Male Chinook salmon comprised 74% of the sampled commercial harvests.

The commercial harvest of coho salmon *O. kisutch* was 177,339 fish. Commercial gillnet harvests of coho salmon that were monitored consisted of the Central District drift fleet and Upper Subdistrict set gillnet beaches which represented 75% of the total commercial harvest. The harvest was comprised of age-1.1(12%), -2.1(79%), and -3.1(10%) fish. Average lengths for the 3 age classes were 535 for age-1.1 fish, 554 mm for age-2.1 fish and 576m for age-3.1 fish. Female coho salmon comprised 40% of the sampled commercial harvests.

The commercial harvest of chum salmon *O. keta* was 77,240 fish. The drift gillnet harvest which was the only harvest monitored was 74,836 fish or 97% of the total. The harvest was comprised of 75% age-0.3 and 23% age-0.4 fish. Average lengths for the 2 age classes were 590 for age-0.3, and 604 for age-0.4. Female chum salmon comprised 53% of the sampled commercial harvests.

Key words: Salmon, *Oncorhynchus*, age, size, commercial catch, escapement, exploitation rate, Upper Cook Inlet, Alaska.

INTRODUCTION

Upper Cook Inlet (UCI) supports all 5 species of Pacific salmon *Oncorhynchus*. The map in Figure 1 shows the primary salmon spawning locations in Upper Cook Inlet. From 1977 to 2006, the average commercial harvest of all salmon species in UCI was 4.9 million fish. The historic average of sockeye salmon *O. nerka* was 3.6 million, with 0.7 million even-year pink *O. gorbuscha*, 0.1 odd-year pink, 0.4 million chum *O. keta*, 0.4 million coho *O. kisutch*, and 19,000 Chinook *O. tshawytscha* salmon. Commercial salmon harvests in UCI represent approximately 5% of the statewide commercial harvest (Shields 2007). Locations of the commercial fishing districts, subdistricts, and Upper Subdistrict beach fisheries are shown in Figures 2 and 3.

The pioneering work of Davis and Kissner (1969) in UCI provided a framework from which age, sex, and length data collection began. Unfortunately in the early years (1964–1978) the sample collection of commercial harvest and escapement data was sporadic and limited compared to the present. Information was published in annual technical reports from 1964 to 1978 (Florey 1977; Litchfield 1983; Namtvedt et al. 1978; Nelson 1984). Davis and Tarbox (1985) produced a compendium of information for the period of 1964–1981 to summarize the yearly results. The series continued with the advent of stock separation studies in 1978 and has been in existence ever since (Bethe et al. 1980; Cross 1985; Cross et al. 1981, 1982, 1983, 1985, 1987; Tobias and Tarbox 1999a, 1999b, 2000; Tobias and Waltemyer 1996; Tobias and Willette 2001, 2002, 2003,

2004, 2007, Tobias and Willette 2008 a, b; Waltemyer 1989, 1990, 1991, 1993, 1994a, 1994b, 1995a, 1995b; Waltemyer and Tobias 1997, 1998. The major emphasis has been on sampling sockeye salmon in the commercial harvests and escapements. However, Chinook, coho, and chum salmon sampling in key commercial harvests has been conducted since 1983.

Age, sex, and length information in conjunction with abundance data provides a basis for assessing yearly variations in production and effects of management strategies. This report is part of a continuing series. General objectives were: 1) document number of salmon harvested in selected commercial gillnet fisheries; 2) report sockeye escapement numbers from the major river systems; and 3) estimate age, sex, and length composition of salmon in selected commercial harvests and escapements.

METHODS

CATCH AND ESCAPEMENT ESTIMATION

Commercial harvest statistics were compiled from Alaska Department of Fish and Game (ADF&G) final fish ticket information. All commercially harvested salmon, whether sold or kept for personal use, are recorded on fish tickets and entered into the statewide fish ticket database (Shields 2007).

ADF&G Commercial Fisheries personnel used Bendix Corporation¹ single-beam, side-looking sonar to estimate the adult salmon escapement in the Kenai (1 July–23 August; River Mile 19), Kasilof (15 June–13 August; RM 10.5), Crescent (24 June–7 August; RM 1.5), and Yentna River (7 July–16 August; RM 4.0; Westerman and Willette *In prep*).

Sockeye salmon escapement in Fish Creek was determined with a fish counting weir located 3 miles upstream from the confluence with Knik Arm of Cook Inlet. Sport Fish Division personnel in Palmer monitored sockeye salmon escapement through the weir at Fish Creek from 6 July to 15 August. Sport Fish Division personnel in Soldotna monitored escapements on the Russian River, a tributary of the Kenai River, for late run sockeye salmon from 15 July until 13 September.

Cook Inlet Aquaculture Association (CIAA) personnel sampled Hidden Lake, a tributary of Kenai River, from 10 July to 12 September. CIAA ran weirs on the Susitna River drainage in 2007 at Shell, Judd, Larson, Chelatna, Swan, Stephan and Byers lakes (Figure 4). CIAA also ran a weir on Packer's Lake on Kalgin Island from 3 July to September 6.

AGE, SEX, AND SIZE DATA

Fish scales were taken from the left side of the salmon approximately 2 rows above the lateral line on the diagonal row that extends down from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin (Koo 1955). One scale was collected from each sockeye and chum salmon. Because of the higher number of regenerated scales on coho and Chinook salmon, 3 scales were collected from each of these species. Scales were mounted on gum cards and impressions made in cellulose acetate as described by Clutter and Whitesel (1956).

Ages of salmon were determined by visual examination of scale impressions under moderate magnification (40X) using a microfiche viewer. Age was determined based upon criteria

¹ Product names used in this report are included for scientific completeness but do not constitute a product endorsement.

established by Mosher (1969) and Tobias et al. (1994). Ages were recorded in European notation, whereby numerals preceding the decimal refer to the number of freshwater annuli and numerals following the decimal refer to the number of marine annuli (Koo 1962). The total age of the fish from the time of egg deposition equals the sum of these numbers plus 1.

Sex and length information were recorded for all specimens sampled. Sex of the all species except Chinook was determined by morphological characteristics (Groot and Margolis 1991). All Chinook under 800 mm were viscerally checked to verify sex. Length was measured from mideye to tail fork, and recorded to the nearest millimeter for all species except Chinook, which were measured to the nearest 5 millimeters.

Age, sex, and length compositions of the commercial harvests were estimated using a stratified systematic random sampling design (Cochran 1977). A minimum sample size of 403 readable scales was determined for each species and strata to estimate simultaneously the proportion of each major age class in the harvest within 5% of the true proportion 90% of the time (Thompson 1987). A sample of 460 fish per strata for sockeye salmon harvested in the commercial fisheries was set to account for unreadable scales.

The sampling design of the commercial fishery harvests was stratified by date and area. Salmon were sampled from each of 9 commercial fishing districts and sub-districts from 8 to 14 times during the season. Frequency of sampling of the commercial fisheries was increased in 2007 similar to 2006 to achieve objectives of the UCI genetics catch sampling program. Four additional employees were used to sample the drift fishery, and an additional crew of 2 people sampled the beach fisheries. North and South Kalifornsky Beach were sampled separately, and Kalgin Island Subdistrict and Western Subdistrict were sampled twice each week when the tender buying fish in these areas was offloaded. Most of the fisheries were sampled during every open fishing period.

The drift fishery harvest was sampled during 14 fishing periods at the docks of 3 processing plants. Samples were collected in proportion to the catch to ensure a representative sample. Sex, age, length, and genetic samples were collected from drift boats as they unloaded at Inlet Salmon and Ocean Beauty's Kasilof and Kenai River docks during each commercial drift fishing period. As the harvest from each boat was unloaded and weighed at the docks, crews obtained weights from the processing employees, calculated catch per boat, and sampled a percentage of each boat's catch. A minimum total sample of 130 fish was taken at each processor during each fishing period. The third processor, Icicle Seafoods of Homer received tender fish the day following the drift period. The tender had a mix of fish in the hold from various boats that unloaded in the Inlet. The crew sampled fish from different totes as they were pumped off the tender at the dock, in an effort to achieve a mix of the tender fish.

Collection of samples from the Central District Eastside beach set gillnet harvests, (Cohoe/Ninilchik, North and South Kalifornsky Beach and Salamatof Beach) occurred every regular fishery opening from June 25 to August 9. Samples were taken during 2 tides a day, at buying stations and processors that purchased salmon from each beach area. The Eastern Subdistrict set gillnet harvest was sampled 8 times during the season since this subdistrict was closed to commercial fishing between July 26 to August 6. The General Subdistrict was not sampled in 2007, because this area had a small harvest and none of the Kenai Peninsula processors bought fish from the Northern District during July of 2007. Kalgin Island set gillnet harvests were sampled 14 times, from the tender Georgia Strait that unloaded at the Inlet Salmon

dock in Kenai the day following the fishery opening. Western Subdistrict fish were unloaded and sampled 13 times at Pacific Star dock in Kenai from 1 of 2 tenders, the Brisk or the Makanader usually the day following the fishery.

The Kasilof Terminal Special Harvest Area drift harvest of 15,611 sockeye over 8 openings and set net harvest of 4,659 over 5 openings was not considered significant enough to warrant sampling of these areas.

Age and sex composition were estimated as a series of proportions p_{ij} defining a multinomial distribution for sockeye salmon:

$$\hat{p}_{ij} = n_{ij}/n \quad (1)$$

Where:

n is the number in the sample, and

n_{ij} the number in the sample of age i sex j .

Resulting age, sex, and size (ASL) compositions for each time-strata sampled were applied to the total harvest. Depending on the size of the harvest and number of times the fishery was sampled, each ASL composition may represent 1 fishing period or the entire season's harvest. ASL apportioned harvests were summed to calculate the total number of each ASL group harvested from each fishery and district.

For sockeye salmon escapements, a weighted sample size of at least 500 fish was used to provide the same level of precision as the sampling in the commercial fishery. The 500 fish were sampled in proportion to the daily escapement. The percent of each day's escapement to be sampled was estimated based on the anticipated total escapement (i.e. 500 total samples/500,000 escapement estimate indicates 0.10% of each day's total count needs to be sampled).

The Offshore Test fish program employs a chartered gillnet vessel fishing 6 fixed stations along a transect crossing Cook Inlet from Anchor Point to the Red River (Shields and Willette 2005). Members of the crew collected age, sex, and length data and genetic samples from sockeye salmon caught at each station along the transect.

GENETIC SAMPLES

Sampling for the genetics program was done as described in the operational plan "Post Season Stock Composition Analysis of Upper Cook Inlet Sockeye Salmon Harvest" by Willette and Raborn. The axillary process fin was removed and preserved in ETOH for DNA analysis as prescribed by the ADF&G Gene Conservation Lab, Anchorage (Willette et al. *In prep*).

RESULTS AND DISCUSSION

ASL data were collected from a total of 954 Chinook, 41,387 sockeye, 1,091 coho, and 767 chum salmon from selected UCI commercial gillnet harvests and escapements in 2007 (Table 1). Genetic Samples were taken from a total of 1,541 sockeye salmon in the Kenai River, 355 from radio-tagged fish on Yentna River and 539 from Susitna weir escapements, while 2,098 samples were taken from the Offshore Test fish boat. Crews from the commercial fisheries catch and escapement crews took genetic samples from 17,972 sockeye salmon harvested in the

commercial fishery (Table 2). Commercial fishery genetics samples were used to construct sub-samples ($n=7,400$) weighted in proportion to catch for specific time-area strata. These weighted sub-samples were sent to the ADF&G Gene Conservation Lab for analyses.

Sockeye Salmon

Total Return

The sockeye salmon total run to Upper Cook Inlet in 2007 was comprised of a commercial harvest of 3.3 million fish and an estimated escapement of 1.7 million fish (Tables 3 and 4). An estimated 600,000 sockeye salmon were harvested in personal use, sport and subsistence fisheries below the counting sites on the rivers and in the Inlet. The estimated total run was 5.4 million sockeye salmon in 2007.

The following 4 major age classes made up 98% of the monitored sockeye salmon commercial harvests and escapements (Table 4):

<u>Age Class</u>	<u>%</u>	<u>Escapement and Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	12.8	606,517	485
1.3	69.7	3,315,045	579
2.2	5.7	271,267	494
2.3	9.4	445,239	563

The predominant age class percentages, numbers and mean lengths of sockeye salmon in the UCI commercial harvest were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	10.7	350,662	492
1.3	72.8	2,391,301	581
2.2	4.7	155,363	503
2.3	9.6	314,697	565

The predominant age class percentages, numbers and mean lengths in the monitored UCI escapements were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	17.4	255,855	475
1.3	62.9	923,744	573
2.2	7.9	115,904	483
2.3	8.9	130,542	558

Female contributions among all the age classes ranged from 48% to 53% in the commercial harvests and from 47% to 54% in the escapements (Table 4).

Commercial Harvest

The 2007 Central District sockeye salmon total drift gillnet harvest (excluding Chinitna Bay and the Kasilof Terminal Drift Harvest) was 1,818,818 fish (Tables 4 and 5). This harvest represented 55% of the total UCI sockeye salmon harvest. Historically, the drift harvest from 1977–2006 averaged 55% of the total UCI sockeye salmon harvest. The major age class percentages, number of fish and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	7.8	141,303	504
1.3	78.1	1,420,866	584
2.2	3.0	54,614	513
2.3	8.6	156,149	570

Sex composition in the drift-gillnet harvest ranged from 43% (5–7 August) to 64% (2 July) females.

The Cohoe/Ninilchik Beach sockeye salmon set gillnet harvest was 535,508 fish, representing 16% of the total UCI sockeye salmon harvest in 2007 (Tables 4 and 6), while 14% of the historical average UCI sockeye salmon harvest are harvested from Coho/Ninilchik Beach. The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	19.5	104,347	484
1.3	60.7	324,921	574
2.2	7.2	38,298	494
2.3	11.5	61,387	556

Sex composition in the Cohoe/Ninilchik Beach sockeye salmon harvest ranged from 42% (5–9 August) to 58% (4–5 July) females.

The Kalifornsky Beach set gillnet harvest, which historically averaged 13% of the total UCI sockeye salmon harvest, represented 9% or 288,544 fish in 2007. The harvest consisted of 105,180 from North Kalifornsky Beach and 183,364 sockeye salmon from South Kalifornsky Beach (Tables 7, 8 and 9).

The 4 major age class percentages, number of fish, and mean lengths in the North Kalifornsky Beach harvest were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	15.3	16,084	480
1.3	63.8	67,069	569
2.2	7.5	7,898	499
2.3	11.4	11,986	551

The sex composition of the North Kalifornsky Beach sockeye harvest ranged from 38% (5–9 August) to 56% (30–31 July; Table 7) females.

The 4 major age class percentages, number of fish, and mean lengths in the South Kalifornsky Beach sockeye salmon harvest were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	28.9	52,941	472
1.3	49.5	90,734	564
2.2	10.4	19,034	479
2.3	9.6	17,659	542

The sex composition in the South Kalifornsky Beach sockeye harvest ranged from 44% (9–12 July and 25–28 July) to 56% (30 July–2 August; Table 8) females.

The 4 major age class percentages, number of fish, and mean lengths in the combined Kalifornsky Beach sockeye salmon harvests were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	23.3	67,252	474
1.3	55.4	159,816	566
2.2	9.3	26,798	486
2.3	10.4	29,960	546

Sex composition in the combined Kalifornsky Beach sockeye salmon harvest ranged from 44% (25–28 July and 5–9 August) to 55% (25 June–5 July; Tables 4 and 9) females. Figure 5 is a comparison of age composition of North and South Kalifornsky Beach set gillnet harvests through the season.

The Salamatof Beach/East Forelands set gillnet sockeye salmon harvest, which historically averaged 13% of the total UCI sockeye salmon harvest, represented 15% or 513,724 fish in 2007 (Tables 4 and 10). The 4 major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	4.9	25,001	499
1.3	79.3	407,360	584
2.2	3.5	17,761	519
2.3	9.5	48,820	575

Sex composition in the Salamatof Beach harvest ranged from 39% (16 July) to 57% (12 July) females in all the sampling periods (Table 10).

Of the 4 Upper Subdistrict beach fisheries sampled, sockeye salmon harvested on the South Kalifornsky beach were smallest in total mean length (527 mm). The Salamatof Beach harvest of sockeye were the largest at 577 mm. Cohoe/Ninilchik and N. Kalifornsky Beach sockeye salmon averaged 548 mm in length.

The Eastern Subdistrict sockeye salmon set gillnet harvest of 9,222 fish, which historically averaged 1% of the total UCI sockeye salmon harvest, represented 0.3% in 2007 (Tables 4 and 11). The Eastern Subdistrict was closed to commercial fish from July 26 through August 6. The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	19.3	1,775	495
1.3	62.5	5,767	570
2.2	6.5	602	487
2.3	9.3	856	549

Sex composition in the Eastern Subdistrict harvest was 49% females.

The General Subdistrict set gillnet sockeye salmon harvest of 8,245 was the second lowest in thirty years, and the area was closed to commercial fishing from July 26 through August 6. No fish were sampled from the General Subdistrict because none of the small harvest was brought by tender to the Kenai Peninsula processors in 2007.

The Western Subdistrict set gillnet harvest of 56,854 represented 2% of the total UCI sockeye salmon harvest (Tables 4 and 12). Historically, the Western Subdistrict harvests 1% of the total sockeye salmon harvest. The major age class percentages, numbers of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	9.3	5,270	506
1.3	67.3	38,265	563
2.2	9.1	5,187	510
2.3	13.3	7,566	557

Females represented 49% of the harvest.

The Kalgan Island commercial set gillnet harvest of 63,117 sockeye salmon represented 2% of the total UCI sockeye salmon harvest which is the same as the historical harvest (Tables 4 and 13). The major age class percentages, numbers of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.2	9.1	5,714	510
1.3	54.4	34,306	570
2.2	19.2	12,103	492
2.3	15.8	9,959	554

Females represented 50% of the harvest.

Offshore Test fish

Age class percentages, number of fish, and mean lengths from sockeye salmon caught on the Offshore Test fish boat in 2007 were:

<u>Age Class</u>	<u>%</u>	<u>Number of Fish</u>	<u>Mean Length (mm)</u>
1.2	7.8	314	514
1.3	76.4	3,084	584
2.2	4.7	189	525
2.3	7.8	314	566

Age composition was similar to the Central District drift fishery results. Overall sex composition from the offshore test fish boat was 38% females compared to 53% females in the drift fishery. The mean length of all age classes from the Central drift fishery and the offshore test fishery was 575 mm (Tables 5 and 14).

Escapement

It is estimated that a minimum of 1,687,739 sockeye salmon escaped the commercial fishery and entered the 5 major rivers and “other” streams of UCI (Table 4). Sockeye salmon escapements in descending order of abundance were 867,572 fish in Kenai River, 336,866 in Kasilof River, 220,140 in “other” systems, 155,807 in Susitna River, 79,406 in Crescent River and 27,948 in Fish Creek. The estimate of “other” systems is calculated as 15% of the escapements into the monitored river systems, based on earlier studies done to evaluate production from other systems in Upper Cook Inlet (Fox 2001). The estimate of total Susitna River escapement represents the combined escapement at Yentna River sonar site (79,901) plus an estimate of the mainstem Susitna River based on the historical relation of Yentna (x) to Sunshine Station (y) from 1981–1985 (the only years of comparison) which yielded the following function (Westerman and Willette *In prep*):

$$y = 0.95 * x \quad (2)$$

The predominant age classes in the 5 monitored UCI sockeye escapements were age-1.2 (17.4%), age-1.3 (62.9%), age-2.2 (7.9%) and age-2.3 (8.9%) fish; Table 4). Comparisons of the 4 major age class compositions by river are presented in Figure 8.

Major age class percentages, number of fish, and mean lengths in the Kenai River weighted sockeye escapement were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	5.9	51,437	505
1.3	78.8	683,542	581
2.2	4.4	37,721	519
2.3	7.8	67,440	576

The overall mean length of Kenai River sockeye was 572 mm. Females comprised 49% of the Kenai River escapement (Tables 4 and 15).

Hidden Creek, a tributary of Kenai River, had an estimated sockeye salmon weir escapement of 16,718 sockeye salmon. Major age class percentages, numbers of fish, and mean lengths in Hidden Creek escapement were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	63.5	10,607	537
1.3	23.1	3,861	562
2.2	11.3	1,885	520

The overall length of Hidden Creek sockeye salmon was 542 mm and 54% were females (Table 16).

Russian River, another tributary of the Kenai River, had a late-run sockeye salmon weir escapement of 53,068 fish. Major age class percentages, numbers of fish, and mean lengths in the Russian River sockeye escapement were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	7.1	3,742	510
2.1	7.7	4,082	386
1.3	4.5	2,382	572
2.2	58.3	30,956	510
2.3	21.2	11,226	570

The overall mean length of Russian River sockeye was 516 mm. Females comprised 54% of the sockeye salmon sampled (Table 17).

Kasilof River had an escapement of 336,866 sockeye salmon in 2007. Escapement age class percentages, number of fish and mean lengths in the weighted escapement were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	44.8	150,731	466
1.3	25.3	85,290	542
2.2	19.3	64,906	463
2.3	9.9	33,258	522

The overall mean length of Kasilof River escapement sockeye was 489 mm. Females comprised 53% of the sockeye salmon sampled (Tables 4 and 18).

Crescent River escapement was 79,406 sockeye salmon with the following major age class percentages, number of fish and mean lengths:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	8.3	6,588	467
1.3	64.4	51,145	557
2.2	3.5	2,775	455
2.3	21.2	16,818	554

The overall mean length of Crescent River sockeye salmon was 540 mm. Females comprised 53% of the Crescent River escapement (Tables 4 and 19).

The Yentna River, a tributary of the Susitna River, had an escapement of 79,902 sockeye salmon. The major age class percentage, number of fish and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
0.3	3.6	2,838	560
1.2	18.9	15,063	466
1.3	60.9	48,684	563
2.2	6.3	5,021	486
2.3	7.4	5,895	555

The overall mean length of Yentna River sockeye salmon was 535 mm. Sex composition in the escapement was 50% females (Tables 4 and 20).

Sockeye salmon captured in fish wheels at Sunshine Station were sampled by Sport Fish Division in 2007 to estimate age composition. Expanding our Yentna-sonar sockeye salmon estimate to the Susitna side of the drainage, we estimated that 75,906 sockeye salmon passed Sunshine Station. The major age class percentage, number of fish and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
0.3	3.4	2,566	560
1.2	22.0	16,678	479
1.3	60.0	45,542	558
2.2	5.2	3,956	501
2.3	8.9	6,736	562

The overall mean length of Sunshine Station sockeye salmon was 538 mm. Sex composition in the fish wheel catch was 47% females (Tables 4 and 21).

The weighted age composition from Yentna River was not significantly different ($x^2=2.15$, $df=3$, $p>0.05$) from the age composition from Sunshine Station. The Yentna River and Sunshine Station data represent the 2 major tributaries of the Susitna River.

Figure 9 shows the major age classes for sockeye salmon in the escapement into 5 major river systems in Upper Cook Inlet.

Fish Creek had an escapement of 27,948 sockeye salmon in 2007. Fish Creek sockeye age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.1	3.4	960	356
1.2	55.0	15,358	474
1.3	34.1	9,541	522
2.2	5.5	1,525	470

The overall mean length of Fish Creek sockeye was 486 mm. Females comprised 54% of the escapement (Tables 4 and 22).

Age, sex, and length data were taken from Shell, Judd, Larson, Chelatna, Swan, Byers and Stephan lakes in the Susitna River drainage in 2007 by Cook Inlet Aquaculture Association. Age composition results from these lakes are included in Tables 23–29. Genetic samples were taken from Byers, Stephan and Swan lakes.

Packer's Lake on Kalgin Island had an escapement of 46,637 sockeye salmon in 2007. Packers Lake sockeye age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length (mm)</u>
1.2	3.6	1,671	465
1.3	5.5	2,582	524
2.2	73.1	34,105	460
2.3	15.5	7,215	539

The overall mean length of Packer's Lake sockeye was 473 mm. Females comprised 55% of the escapement (Table 30).

Genetics

Genetic samples collected in 2007 will be analyzed in 2007 and 2008 and results will be reported by the ADF&G Gene Conservation Lab in Anchorage.

CHINOOK SALMON

Commercial Harvest

The total commercial harvest of Chinook salmon in 2007 was 17,625 which was close to the long-term average harvest (1977–2006) of 18,572 fish. The Upper Subdistrict set gillnet fishery harvest was 12,288 or 70% of the UCI harvest (Table 3).

The predominant age class percentages, number of fish and mean lengths in the Upper Subdistrict Chinook harvest were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length (mm)</u>
1.1	4.8	592	430
1.2	42.7	5,248	600
1.3	22.4	2,757	800
1.4	28.5	3,504	954
1.5	1.3	155	1,046

The overall mean length was 744 mm, and females accounted for 26% of the commercial harvest (Table 31).

COHO SALMON

Commercial Harvest

The coho salmon commercial harvest of 177,339 fish was close to half of the long term average of 362,000. Coho salmon were sampled from 2 gillnet fisheries which represented 74% of the total UCI coho salmon harvest (Tables 32, 33 and 34). Age-2.1 coho salmon accounted for the bulk of the harvest:

	<u>Age 2.1</u>	<u>Harvest</u>	<u>Mean Length (mm)</u>
Central District drift gillnet	79.0%	85,574	555
Upper Subdistrict set gillnet	78.5%	18,509	551

Age 1.1 (11.6%) and age-3.1 (9.5%) accounted for the remainder of the total monitored coho salmon harvests. Coho salmon overall mean lengths in the Central District drift harvests was 555 mm and in the Upper Subdistrict set gillnet harvest 551 mm. Females represented 40% of the combined harvest.

CHUM SALMON

Commercial Harvest

The total 2007 chum salmon commercial harvest was 77,240 fish. The historical average harvest of chum salmon is 440,000. Chum salmon were sampled from the commercial drift gillnet harvest of 74,836 fish, which made up 97% of the total commercial harvest (Table 35). The major age class percentages, number of fish, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Commercial Harvest</u>	<u>Mean Length</u>
0.3	75.1	56,186	590
0.4	23.0	17,243	604

Females represented 53% of the chum salmon harvest. Overall mean length was 593 mm.

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TABLES AND FIGURES

Table 1.—Number of salmon sampled from selected commercial gillnet harvests, escapements and offshore test fishing in Upper Cook Inlet, Alaska, 2007.

Location ^a			Species			
			Chinook	Sockeye	Coho	Chum
Commercial Harvest						
Central District	Drift			6,483	509	767
	Upper Subdistrict ^b		954		582	
	Cohoe/Ninilchik Beach			5,310		
	North Kalifornsky Beach			3,968		
	South Kalifornsky Beach			3,855		
	Salamatof Beach			4,135		
	Kasilof Terminal Fishery			100		
	Western Subdistrict			1,300		
	Kalgin Island			1,385		
Northern District	Eastern Subdistrict			341		
	General Subdistrict			0		
	Subtotal		954	26,877	1,091	767
Escapement						
Central District	Kenai River	Mainstream - late run		867		
		Hidden Creek		1,145		
		Russian River ^c		161		
	Kasilof River	Mainstream		867		
	Crescent River			524		
	Packers Lake			1,651		
Northern District	Susitna River					
		Yentna River		436		
		Sunshine ^c		926		
		Flathorn ^c		0		
	Susitna River Weirs ^d					
		Chelatna Lake		273		
		Swan		822		
		Shell Lake		379		
		Judd Lake		1,445		
		Byers		173		
		Stephan Lake		1,159		
		Larson Lake		1,000		
	Fish Creek ^c			583		
	Subtotal		0	12,411	0	0
Offshore Test Fish boat						
Drift - Anchor Point to Red River Delta ^e				2,099		
	Total Samples		954	41,387	1,091	767

^a Specific locations not footnoted were sampled by Commercial Fisheries Division personnel, (ADF&G).

^b Represents pooled samples from the Upper Subdistrict commercial set gillnet fisheries.

^c Samples collected by Sport Fish Division personnel, ADF&G.

^d Samples collected by Cook Inlet Aquaculture Association.

^e Samples collected by Offshore Test Fish crew.

Table 2.—Sockeye salmon sampled for genetic studies in the commercial harvests, escapements, offshore test fish and selected weirs of Upper Cook Inlet, Alaska, 2007.

Commercial Harvest Date	Drift	Cohoe/ Ninilchik	Kasilof Terminal	North K-Beach	South K-Beach	Salamatof	Western Subdistrict	Eastern Subdistrict	Kalgin Island
6/25	412	200			118		100		100
6/27									
6/28	460								
6/29									
6/30		200			130		100		100
7/01									
7/02	455	200			130		100	33	100
7/03									
7/04									
7/05	466	200			130		100	40	100
7/07									
7/08									
7/09	530	200		100	188	300	100	40	100
7/10									
7/11									
7/12	499	200		100	200	300	100	28	100
7/14									
7/15									
7/16	611	250		100	187	300	100	40	85
7/17									
7/19	526	250		100	200	300	100	40	100
7/20									
7/21									
7/22									
7/23	460	250		100	200	350	100	40	100
7/24									
7/25									
7/26	460	200	100	100	200	300	100		100
7/27									
7/29									
7/30	413	130		130	130	130	100		100

-continued-

Table 2.—Page 2 of 2.

Commercial Harvest Date	Drift	Cohoe/Ninilchik	Kasilof Terminal	North K-Beach	South K-Beach	Salamatof	Western Subdistrict	Eastern Subdistrict	Kalgin Island
8/01									
8/02	404	130		130	130	130	100		100
8/03									
8/04									
8/05									
8/06	368	130		130	130	130			100
8/07									
8/08									
8/09	419	130		130	130	130	100	80	100
8/10									
Total	6,483	2,670	100	1,120	2,203	2,370	1,300	341	1,385

Weir Samples			Fish wheel Samples		
Date	Lake	Sample Size	Date	Location	Sample Size
8/13-8/27	Byers Stephan	139	07/03-08/23	Kenai River	1,541
7/28-8/05	Lake	200	07/08-08/14	Yentna River	355
8/15-9/08	Swan Lake	200			
Total		539			1,896

Total Commercial Harvest Samples	17,972
Total Fish wheel Samples	1,896
Offshore Test Fish Boat	2,098
Weir Samples	539
TOTAL UPPER COOK INLET SOCKEYE GENETIC SAMPLES	22,505

Table 3.—Number of salmon commercially harvested in Upper Cook Inlet, Alaska, 2007.

Fishery	Code	Chinook	Sockeye	Coho	Pink	Chum	Total
A. Northern District Total		3,822	17,467	21,563	3,527	608	46,987
1. Northern District West		2,872	8,245	12,134	594	515	24,360
a. Trading Bay	247-10	592	952	1,129	33	56	2,762
b. Tyonek	247-20	733	224	394	0	0	1,351
c. Beluga	247-30	702	3,911	5,014	50	124	9,801
d. Susitna Flat	247-41	301	1,129	2,033	97	166	3,726
e. Pt. Mackenzie	247-42	232	870	945	106	72	2,225
f. Fire Island	247-43	312	1,159	2,619	308	97	4,495
2. Northern District East		950	9,222	9,429	2,933	93	22,627
a. Pt. Possession	247-70	768	4,805	3,362	2,439	76	11,450
b. Birch Hill	247-80	101	2,065	4,278	219	12	6,675
c. Number 3 Bay	247-90	81	2,352	1,789	275	5	4,502
B. Central District Total		13,803	3,299,312	155,776	143,493	76,632	3,689,016
1. East Side Set Total		12,288	1,353,407	23,578	69,918	521	1,459,712
a. Salamatof/East Forelands		3,088	513,724	11,853	13,430	376	542,471
Salamatof	244-41	2,946	439,200	7,021	7,122	187	456,476
East Forelands	244-42	142	74,524	4,832	6,308	189	85,995
b. Kalifornsky Beach		3,968	288,544	4,361	4,232	35	301,140
South K. Beach	244-31	2,624	183,364	2,302	2,893	24	191,207
North K. Beach	244-32	1,344	105,180	2,059	1,339	11	109,933
c. Kasilof Terminal	244-25	164	15,631	452	104	0	16,351
d. Cohoe/Ninilchik		5,068	535,508	6,912	52,152	110	599,750
Cohoe	244-22	2,812	219,673	3,960	16,858	37	243,340
Ninilchik	244-21	2,256	315,835	2,952	35,294	73	356,410
2. West Side Set Total		216	56,854	6,207	1,403	642	65,322
a. Little Jack Slough	245-50	3	10,599	1,710	0	60	12,372
c. Tuxedni Bay	245-30	213	46,255	4,497	1,403	582	52,950
3. Kustatan Total		43	2,453	1,351	50	5	3,902
a. Big River	245-55	43	2,332	1,207	0	0	3,582
b. West Foreland	245-60	0	121	144	50	5	320
4. Kalgan Island Total		344	63,117	15,937	4,724	628	84,750
a. West Side	246-10	334	47,825	12,678	4,430	606	65,873
b. East Side	246-20	10	15,292	3,259	294	22	18,877
5. Chinitna Total	245-10	0	4	414	0	0	418
b. Drift	245-10	0	4	414	0	0	418
6. Central District Set Total		12,891	1,475,831	47,073	76,095	1,796	1,613,686
7. Central District Drift Total		912	1,823,481	108,703	67,398	74,836	2,075,330
b. East Side	244-50,60,70	675	1,686,930	104,849	59,148	72,526	1,924,128
c. East Side Corridor Total		221	131,888	3,386	8,226	2,308	146,029
Kasilof Corridor	244-61	90	26,328	379	2,699	197	29,693
E. Side Corridor	244-55	131	105,560	3,007	5,527	2,111	116,336
d. Kasilof Terminal	244-25	16	4,659	54	24	2	4,755
Upper Cook Inlet Harvest Total		17,625	3,316,779	177,339	147,020	77,240	3,736,003

Table 4.—Age, length and percent female composition of sockeye salmon in selected commercial gillnet harvests and river escapements, Upper Cook Inlet, Alaska, 2007.

Location	Age Group													Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
COMMERCIAL HARVEST														
Central District Drift														
Number	452	641	29,665	141,303		28	1,420,866	54,614	11,560	156,149	28	3,249	263	1,818,818
Percent	0.02	0.04	1.63	7.77		0	78.12	3	0.64	8.59	0	0.18	0.01	100
Sample Size	3	2	74	507		1	4,188	176	34	597	1	11	4	5,598
Mean Length ^a	470	416	588	504		566	584	513	629	570	486	602	574	575
% Female	65	81	52	38			54	48	46	58	100	45	69	53
Cohoe/Ninilchik Beach														
Number	501	86	1,949	104,347	398		324,921	38,298	2,604	61,387		817	200	535,508
Percent	0.09	0.02	0.36	19.49	0.07		60.68	7.15	0.49	11.46		0.15	0.04	100
Sample Size	2	1	14	872	7		2,701	350	24	551		12	2	4,536
Mean Length	496	340	547	484	355		574	494	604	556		604	575	548
% Female	78	100	51	49	26		51	44	41	53		43		51
Kalifornsky Beach														
Number	137	187	464	67,252	223		159,816	26,798	2,355	29,960	139	1,170	43	288,544
Percent	0.05	0.06	0.16	23.31	0.08		55.39	9.29	0.82	10.38	0.05	0.41	0.01	100
Sample Size	3	6	12	1,488	5		4,079	562	61	720	3	24	1	6,964
Mean Length	459	332	557	474	355		566	486	611	546	527	601	543	535
% Female	45	64	45	44	15		50	45	28	48	55	44	100	48
Salamatof Beach														
Number	550		4,382	25,001	242		407,360	17,761	7,090	48,820		2,498	20	513,724
Percent	0.11		0.85	4.87	0.05		79.3	3.46	1.38	9.5		0.49	0	100
Sample Size	1		16	184	2		2,579	132	52	292		14	1	3,273
Mean Length	438		579	499	374		584	519	621	575		617	595	577
% Female			45	53	44		52	60	26	52		39		52

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Location	Age Group												Total	
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Western														
Number		312	5,270	50		38,265	5,187	50	7,566		154	56,854		
Percent		0.55	9.27	0.09		67.3	9.12	0.09	13.31		0.27	100		
Sample Size		6	102	1		740	102	1	148		3	1,103		
Mean Length		562	506	379		563	510	640	557		558	552		
% Female		100	51			48	48		54			49		
Kalgin Island														
Number		215	5,714			34,306	12,103	545	9,959	60	155	60	63,117	
Percent		0.34	9.05			54.35	19.18	0.86	15.78	0.1	0.25	0.1	100	
Sample Size		4	108			666	232	14	193	1	3	1	1,222	
Mean Length		566	510			570	492	626	554	511	606	567	547	
% Female		56	58			46	56	19	53		39	100	50	
Northern District														
Eastern Subdistrict														
Number	32		63	1,775	32		5,767	602	63	856		32	9,222	
Percent	0.35		0.68	19.25	0.35		62.54	6.53	0.68	9.28		0.35	100	
Sample Size	1		2	56	1		182	19	2	27		1	291	
Mean Length	553		573	495	405		570	487	565	549		590	547	
% Female	0			52			46	63		63			49	
Commercial Harvest Total^b														
Number	1,672	914	37,050	350,662	945	28	2,391,301	155,363	24,267	314,697	227	7,921	740	3,285,787
Percent	0.05	0.03	1.13	10.67	0.03	0	72.78	4.73	0.74	9.58	0.01	0.24	0.02	100
Sample Size	10	9	128	3,317	16	1	15,135	1,573	188	2,528	5	65	12	22,987
Mean Length	468	392	584	492	363	566	581	503	622	565	518	607	569	566
% Female	47	79	51	44	26		53	49	37	55	46	43	39	52

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Table 4.—Page 3 of 4.

Location	Age Group													Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
ESCAPEMENT														
Central District														
Kenai River														
Number	1,143		51,437	5,715			683,542	37,721	12,573	67,440	1,143	5,715	1,143	867,572
Percent	0.13		5.93	0.66			78.79	4.35	1.45	7.77	0.13	0.66	0.13	100
Sample Size	1		45	5			598	33	11	59	1	5	1	759
Mean Length	602		505	370			581	519	618	576	503	594	540	572
% Female			53	60			48	67	9	56	100	60	100	49
Kasilof River														
Number	2,145		150,731	536			85,290	64,906		33,258				336,866
Percent	0.64		44.75	0.16			25.32	19.27		9.87				100
Sample Size	4		281	1			159	121		62				628
Mean Length	359		466	332			542	463		522				489
% Female	75		55				52	56		42				53
Crescent River														
Number	867		6,588	1,040			51,145	2,775	173	16,818				79,406
Percent	1.09		8.3	1.31			64.41	3.49	0.22	21.18				100
Sample Size	5		38	6			295	16	1	97				458
Mean Length	330		467	324			557	455	594	554				540
% Female			21				60	25		55				53
Northern District														
Yentna River														
Number	1,528	218	2,838	15,063	437		48,684	5,021		5,895	218			79,902
Percent	1.91	0.27	3.55	18.85	0.55		60.93	6.28		7.38	0.27			100
Sample Size	7	1	13	69	2		223	23		27	1			366
Mean Length	431	353	560	466	369		563	486		555	448			535
% Female	43		77	38			51	65		56				50

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Table 4.—Page 4 of 4.

Location	Age Group													Total
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
Sunshine station														
Number	107	107	2,566	16,678			45,542	3,956	107	6,736		107		75,906
Percent	0.14	0.14	3.38	21.97			60	5.21	0.14	8.87		0.14		100
Sample Size	1	1	24	156			426	37	1	63		1		710
Mean Length	435	365	560	479			558	501	645	562		605		538
% Female			46	48			47	62		40				47
Fish Creek														
Number	960		15,358	169			9,541	1,525		395				27,948
Percent	3.43		54.95	0.6			34.14	5.46		1.41				100
Sample Size	17		272	3			169	27		7				495
Mean Length	356		474	363			522	470		515				486
% Female			59				53	44		71				54
Escapement Total ^c														
Number	1,635	4,297	6,547	255,855	7,897		923,744	115,904	12,853	130,542	1,361	5,822	1,143	1,467,600
Percent	0.11	0.29	0.45	17.43	0.54		62.94	7.9	0.88	8.89	0.09	0.4	0.08	100
Sample Size	8	28	38	861	17		1,870	257	13	315	2	6	1	3,416
Mean Length	431	352	568	475	361		573	483	618	558	494	594	540	546
% Female	40	37	51	52	43		49	59	9	51	84	59	100	50
Upper Cook Inlet Total ^d														
Number	3,307	5,211	43,597	606,517	8,842	28	3,315,045	271,267	37,120	445,239	1,588	13,743	1,883	4,753,387
Percent	0.07	0.11	0.92	12.76	0.19	0	69.74	5.71	0.78	9.37	0.03	0.29	0.04	100
Sample Size	18	37	166	4,178	33	1	17,005	1,830	201	2,843	7	71	13	26,403
Mean Length	450	359	582	485	361	566	579	494	621	563	498	601	551	560
Sample Size	18	37	166	4,178	33	1	17,004	1,830	201	2,842	7	71	13	26,401
% Female	43	45	51	48	42		52	53	27	54	79	50	76	51

^a Mean length in mm.^b Total does not include General Subdistrict harvest of 8,245, Kustatan harvest of 2,453 and Chinitna Bay harvest of 4 or Kasilof Terminal set and drift gillnet harvest of 20,290 for a total commercial harvest of 3,316,779.^c Total does not include estimated escapement of 220,140 to "other" systems for a total escapement of 1,687,739 sockeye salmon to Upper Cook Inlet.^d An estimated 600,000 fish were harvested in sport, personal use and subsistence fisheries, of which approximately 200,000 were inriver for a spawning escapement of 1.5 million and 400,000 below counters/in marine waters, for a total return of 5.4 million sockeye salmon.

Table 5.—Age, sex and length composition of sockeye salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 1:	21 - 25 June ^a												
Males	55	553	28	2,818	221	28	580						4,283
Percent	0.58	5.78	0.29	29.48	2.31	0.29	6.07						44.8
Sample Size	2	20	1	102	8	1	21						155
Mean Length ^b	546	523	566	568	540	629	574						562
Std. Error	32	5		3	6		6						2
Females	55	967		2,956	193	28	1,050	28					5,277
Percent	0.58	10.12		30.92	2.02	0.29	10.98	0.29					55.2
Sample Size	2	35		107	7	1	38	1					191
Mean Length	581	506		562	515	588	556	486					549
Std. Error	1	4		3	11		5						2
Both Sexes	110	1,520	28	5,774	414	56	1,630	28					9,560
Percent	1.15	15.9	0.29	60.4	4.33	0.59	17.05	0.29					100
Sample Size	4	55	1	209	15	2	59	1					346
Mean Length	564	512	566	565	528	609	562	486					554
Std. Error	16	3		2	6		4						1

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	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 2:	28 - 30 June ^c												
Males			1,491		5,603	226	45	768					8,133
Percent			8.53		32.04	1.29	0.26	4.39					46.51
Sample Size			33		124	5	1	17					180
Mean Length			526		579	514	629	559					566
Std. Error			5		3	13		8					2
Females	45		136	2,304		5,332	361		1,084		45	45	9,352
Percent	0.26		0.78	13.18		30.49	2.06		6.2		0.26	0.26	53.49
Sample Size	1		3	51		118	8		24		1	1	207
Mean Length	474		575	516		560	506		552		625	580	546
Std. Error			9	3		2	6		6				2
Both Sexes	45		136	3,795		10,935	587	45	1,852		45	45	17,485
Percent	0.26		0.78	21.7		62.54	3.36	0.26	10.59		0.26	0.26	100
Sample Size	1		3	84		242	13	1	41		1	1	387
Mean Length	474		575	520		570	509	629	555		625	580	555
Std. Error			9	3		2	7		5				1

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	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 3:	2 - July ^d												
Males	56		837		6,031	167		893					7,984
Percent	0.25		3.76		27.07	0.75		4.01					35.84
Sample Size	1		15		108	3		16					143
Mean Length	579		503		585	510		550					571
Std. Error			8		3	19		6					3
Females	167		2,791		8,766	502	56	1,954			56		14,292
Percent	0.75		12.53		39.35	2.25	0.25	8.77			0.25		64.16
Sample Size	3		50		157	9	1	35			1		256
Mean Length	573		516		572	516	607	564			571		558
Std. Error	16		4		2	12		4					2
Both Sexes	223		3,628		14,797	669	56	2,847			56		22,276
Percent	1		16.29		66.43	3	0.25	12.78			0.25		100
Sample Size	4		65		265	12	1	51			1		399
Mean Length	575		513		577	515	607	560			571		563
Std. Error	16		4		2	10		3					1

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Table 5.—Page 4 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 4:	4 - 5 July ^e												
Males	157		157	4,232		22,728	627	313	2,194				30,408
Percent	0.25		0.25	6.65		35.71	0.99	0.49	3.45				47.78
Sample Size	1		1	27		145	4	2	14				194
Mean Length	431		561	510		588	528	627	576				574
Std. Error				8		3	33	1	9				3
Females		627		4,232		23,199	940		4,232				33,230
Percent		0.99		6.65		36.45	1.48		6.65				52.22
Sample Size		4		27		148	6		27				212
Mean Length		575		523		568	514		563				560
Std. Error		16		7		2	11		4				2
Both Sexes	157		784	8,464		45,927	1,567	313	6,426				63,638
Percent	0.25		1.23	13.3		72.17	2.46	0.49	10.1				100
Sample Size	1		5	54		293	10	2	41				406
Mean Length	431		572	517		578	520	627	567				567
Std. Error		16		5		2	15	1	4				2

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Table 5.—Page 5 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 5:	9 - July ^f												
Males	521	5,209		34,383	1,302	260	4,168						45,843
Percent	0.5	4.97		32.84	1.24	0.25	3.98						43.78
Sample Size	2	20		132	5	1	16						176
Mean Length	611	498		587	488	584	566						573
Std. Error	18	6		3	6		9						3
Females	1,302	2,865		44,801	1,563	260	8,075						58,866
Percent	1.24	2.74		42.79	1.49	0.25	7.71						56.22
Sample Size	5	11		172	6	1	31						226
Mean Length	562	501		578	511	639	563						570
Std. Error	10	11		2	14		4						2
Both Sexes	1,823	8,074		79,184	2,865	520	12,243						104,709
Percent	1.74	7.71		75.62	2.74	0.5	11.69						100
Sample Size	7	31		304	11	2	47						402
Mean Length	576	499		582	500	612	564						571
Std. Error	9	5		2	8		4						1

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Table 5.—Page 6 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 6:	11 - 14 July ^g												
Males	933	13,066				70,933	2,333	933	7,466				95,664
Percent	0.46	6.48				35.19	1.16	0.46	3.7				47.45
Sample Size	2	28				152	5	2	16				205
Mean Length	576	511				589	503	641	575				575
Std. Error	23	5				3	11	30	9				3
Females	1,400	2,800				85,864	2,800	2,333	10,733				105,930
Percent	0.69	1.39				42.59	1.39	1.16	5.32				52.55
Sample Size	3	6				184	6	5	23				227
Mean Length	598	507				579	519	626	570				576
Std. Error	11	24				2	13	9	5				2
Both Sexes	2,333	15,866				156,797	5,133	3,266	18,199				201,594
Percent	1.16	7.87				77.78	2.55	1.62	9.03				100
Sample Size	5	34				336	11	7	39				432
Mean Length	589	510				583	512	631	572				576
Std. Error	11	6				2	9	11	5				2

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Table 5.—Page 7 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 7:	16 - July ^h												
Males	4,423	25,652			173,375	8,846	885	15,922					229,103
Percent	0.92	5.33			36.03	1.84	0.18	3.31					47.61
Sample Size	5	29			196	10	1	18					259
Mean Length	606	500			591	516	645	562					577
Std. Error	8	5			2	10		8					2
Females	3,538	15,038			218,487	885		14,153					252,101
Percent	0.74	3.13			45.4	0.18		2.94					52.39
Sample Size	4	17			247	1		16					285
Mean Length	595	505			579	498		570					574
Std. Error	7	7			2			6					2
Both Sexes	7,961	40,690			391,862	9,731	885	30,075					481,204
Percent	1.65	8.46			81.43	2.02	0.18	6.25					100
Sample Size	9	46			443	11	1	34					544
Mean Length	601	502			585	514	645	566					575
Std. Error	5	4			1	10		5					1

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Table 5.—Page 8 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 8:	19 - July ⁱ												
Males	5,860	22,463		154,311	7,813	977	15,627		977				208,028
Percent	1.3	4.98		34.2	1.73	0.22	3.46		0.22				46.1
Sample Size	6	23		158	8	1	16		1				213
Mean Length	588	494		591	489	642	567		595				575
Std. Error	16	6		3	13		8						2
Females	4,883	12,697		190,448	11,720	1,953	20,510		977				243,188
Percent	1.08	2.81		42.21	2.6	0.43	4.55		0.22				53.9
Sample Size	5	13		195	12	2	21		1				249
Mean Length	583	495		580	518	619	572		603				572
Std. Error	12	10		2	9	3	7						2
Both Sexes	10,743	35,160		344,759	19,533	2,930	36,137		1,954				451,216
Percent	2.38	7.79		76.41	4.33	0.65	8.01		0.43				100
Sample Size	11	36		353	20	3	37		2				462
Mean Length	586	495		585	507	627	570		599				573
Std. Error	10	5		2	7	3	5						1

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Table 5.—Page 9 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 9:	21 - 23 July ^j												
Males		1,035	7,243		84,322	2,587	1,552	5,691					102,430
Percent		0.5	3.47		40.35	1.24	0.74	2.72					49.01
Sample Size		2	14		163	5	3	11					198
Mean Length		601	501		600	535	644	593					592
Std. Error		23	8		2	12	11	10					2
Females	517	1,552	4,656		86,910	1,552		11,381					106,568
Percent	0.25	0.74	2.23		41.58	0.74		5.45					50.99
Sample Size	1	3	9		168	3		22					206
Mean Length	430	577	511		585	522		577					579
Std. Error		9	9		2	31		5					2
Both Sexes	517	2,587	11,899		171,232	4,139	1,552	17,072					208,998
Percent	0.25	1.24	5.69		81.93	1.98	0.74	8.17					100
Sample Size	1	5	23		331	8	3	33					404
Mean Length	430	586	505		592	530	644	582					585
Std. Error		11	6		1	14	11	5					1

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Table 5.—Page 10 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 10:	26 - 28 July ^k												
Males	356	1,069		27,078	1,425	713	3,919		178				34,738
Percent	0.48	1.45		36.72	1.93	0.97	5.31		0.24				47.1
Sample Size	2	6		152	8	4	22		1				195
Mean Length	608	508		599	517	631	575		636				591
Std. Error	12	20		2	9	4	8						2
Females	1,069	1,247		30,284	891		5,344		178				39,013
Percent	1.45	1.69		41.06	1.21		7.25		0.24				52.9
Sample Size	6	7		170	5		30		1				219
Mean Length	571	500		576	547		572		572				572
Std. Error	4	13		2	14		4						2
Both Sexes	1,425	2,316		57,362	2,316	713	9,263		356				73,751
Percent	1.93	3.14		77.78	3.14	0.97	12.56		0.48				100
Sample Size	8	13		322	13	4	52		2				414
Mean Length	580	504		587	529	631	573		604				581
Std. Error	4	11		2	8	4	4						1

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Table 5.—Page 11 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 11:	30 - 31 July ¹												
Males	250	2,749		33,241	1,750	250	3,749	500					42,489
Percent	0.28	3.03		36.64	1.93	0.28	4.13	0.55					46.83
Sample Size	1	11		133	7	1	15	2					170
Mean Length	588	516		596	514	649	584	599					587
Std. Error		8		2	22		10	27					2
Females	250	250	2,999	35,241	2,999	500	5,998						48,237
Percent	0.28	0.28	3.31	38.84	3.31	0.55	6.61						53.17
Sample Size	1	1	12	141	12	2	24						193
Mean Length	494	514	524	575	526	601	566						567
Std. Error		8		2	8	15	5						2
Both Sexes	250	500	5,748	68,482	4,749	750	9,747	500					90,726
Percent	0.28	0.55	6.34	75.48	5.23	0.83	10.74	0.55					100
Sample Size	1	2	23	274	19	3	39	2					363
Mean Length	494	551	520	585	522	617	573	599					576
Std. Error		6		2	9	15	5	27					1

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Table 5.—Page 12 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 12:	1 - 2 August ^m												
Males	124	371	1,486		16,465	371	248	1,609		124		20,798	
Percent	0.29	0.87	3.47		38.44	0.87	0.58	3.76		0.29		48.56	
Sample Size	1	3	12		133	3	2	13		1		168	
Mean Length	359	609	496		585	513	609	561		645		575	
Std. Error	21	12		2	10	15	9					2	
Females	248	1,114		17,949	619		1,981		124		22,035		
Percent	0.58	2.6		41.9	1.45		4.62		0.29		51.44		
Sample Size	2	9		145	5		16		1		178		
Mean Length	556	493		568	514		566		587		563		
Std. Error	10	11		2	17		7					2	
Both Sexes	124	619	2,600		34,414	990	248	3,590		248		42,833	
Percent	0.29	1.45	6.07		80.34	2.31	0.58	8.38		0.58		100	
Sample Size	1	5	21		278	8	2	29		2		346	
Mean Length	359	588	495		576	514	609	564		616		569	
Std. Error	13	8		1	11	15	6					1	

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Table 5.—Page 13 of 16.

	Age Group												
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 13:	5 - 7 August ⁿ												
Males	130	783		9,458	326		1,435						12,132
Percent	0.61	3.69		44.62	1.54		6.77						57.23
Sample Size	2	12		145	5		22						186
Mean Length	588	532		588	537		576						582
Std. Error	6	11		2	11		6						2
Females	130	196		7,502	65	65	1,044		65				9,067
Percent	0.61	0.92		35.39	0.31	0.31	4.92		0.31				42.77
Sample Size	2	3		115	1	1	16		1				139
Mean Length	561	518		566	527	614	564		648				565
Std. Error	14	18		2			8						2
Both Sexes	260	979		16,960	391	65	2,479		65				21,199
Percent	1.23	4.62		80	1.84	0.31	11.69		0.31				100
Sample Size	4	15		260	6	1	38		1				325
Mean Length	575	529		578	535	614	571		648				575
Std. Error	8	9		2	11		5						1

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Table 5.—Page 14 of 16.

	Age Group													
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total	
Sample Period 14:	8 August - 10 September ^o													
Males	161	322		11,674		403		2,335		81		14,976		
Percent	0.54	1.09		39.4		1.36		7.88		0.27		50.55		
Sample Size	2	4		145		5		29		1		186		
Mean Length	590	521		586		526		576		613		582		
Std. Error	20	14		2		12		6				2		
Females	242		10,707		1,127		161		2,254		81		14,653	
Percent	0.82		36.14		3.8		0.54		7.61		0.27		49.45	
Sample Size	3		133		14		2		28		1		182	
Mean Length	501		561		507		561		559		609		556	
Std. Error	34		2		6		13		4				2	
Both Sexes	161	564		22,381		1,530		161		4,589		81		29,629
Percent	0.54	1.9		75.54		5.16		0.54		15.49		0.27		100
Sample Size	2	7		278		19		2		57		1		368
Mean Length	590	512		574		512		561		567		609		569
Std. Error	20	17		1		5		13		3				1

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Table 5.—Page 15 of 16.

	Age Group												Total
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	
All Periods Combined:													
Males	157	124	14,308	87,155	28	652,420	28,397	6,204	66,356		1,779	81	857,009
Percent	0.01	0.01	0.79	4.79	0	35.87	1.56	0.34	3.65		0.1	0	47.12
Sample Size	1	1	31	254	1	1,988	81	19	246		5	1	2,628
Mean Length	431	359	595	502	566	592	509	637	571		604	613	579
Std. Error			8	2		1	5	9	3		27		1
Females	295	517	15,357	54,148		768,446	26,217	5,356	89,793	28	1,470	182	961,809
Percent	0.02	0.03	0.84	2.98		42.25	1.44	0.29	4.94	0	0.08	0.01	52.88
Sample Size	2	1	43	253		2,200	95	15	351	1	6	3	2,970
Mean Length	491	430	582	506		578	518	619	569	486	601	557	572
Std. Error			5	3		1	5	5	2				1
Both Sexes	452	641	29,665	141,303	28	1,420,866	54,614	11,560	156,149	28	3,249	263	1,818,818
Percent	0.02	0.04	1.63	7.77	0	78.12	3	0.64	8.59	0	0.18	0.01	100
Sample Size	3	2	74	507	1	4,188	176	34	597	1	11	4	5,598
Mean Length	470	416	588	504	566	584	513	629	570	486	602	574	575
Std. Error			4	2		1	4	5	2		27		1

^a Drift open district wide 6/21 and 6/25 0700–1900.^b Mean length in mm.^c Drift open district wide 6/28 0700–1900. Kasilof Section open 6/28 1900–2400, 6/29 0500–2400, 6/30 0500–1900.^d Drift open district wide 7/2 0500–1900, Kasilof Section open 7/2 1900–2200.^e Kasilof Section open 7/4 1300–2400, 7/5 drift open district wide except Kenai & E. Forelands Section 0700–1900. Kasilof Section open 7/5 0500–700 and 900–2300.^f Drift Area 1 and Kenai/Kasilof Sections open 7/9 0700–1900.^g Kasilof Section open 7/11 0800–2100, 7/12 drift open Drift Area 1 & Ken/Kas Sections 0700–1900. Kasilof Section open 7/14 0700–1900.^h Drift Area 1 & Ken/Kas Sections open 7/16 0700–1900. Kenai & Kasilof Sections open 1900–2200.ⁱ Drift Area 1 & Ken/Kas Sections open 7/19 0700–1900. Kenai & Kasilof Sections open 1900–2300.^j Kenai & Kasilof Sections open 7/21 1100–2400, 7/22 1500–2300, 7/23 0500–0700. South of Blanchard Line & Ken/Kas Sections open 7/23 0700–1900.^k S. of Blanchard Line & Ken/Kas Sections open 7/26 0700–1900. Kenai & Kasilof Section open 7/28 0900–2300. Kasilof River Special Harvest Area not included in this sample.^l South of north end of Kalgin Island & Ken/Kas Sections open 7/30 0700–1900. Kenai & Kasilof Sections open 7/30 1900–2200, 7/31 1000–2300.^m Kenai & Kasilof Sections open 8/1 0500–2300. South of lat. from N. Kalgin Island to Collier dock open 8/2 0700–1900. Kenai & Kasilof Sections open 8/2 1900–2300.ⁿ Kenai & Kasilof Sections open 8/5 1200–2300, 8/6 1900–2300, 8/7 0500–1500.^o Kenai & Kasilof Sections open 8/8 1900–2300, 8/9 0500–0700. Open district wide 8/9 0700–1900, Kenai & Kasilof Sections open 8/9 0500–2300. Drift Areas 3 & 4 open 0700–1900 8/13, 8/16, 8/20, 8/23, 8/27, 8/30. Drift Areas 3 & 4 & Chinitna Bay open 0700–1900 9/3, 9/6, 9/10.

Table 6.—Age, sex, and length composition of sockeye salmon in the Cohoe/Ninilchik Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 1:	25 - 30 June											
Males			3,393			17,258		295		5,310		148
Percent			6.5			33.05		0.56		10.17		0.28
Sample Size			23			117		2		36		1
Mean Length ^a			488			562		543		546		576
Std. Error			4			3		32		5		2
Females			3,835			17,848		1,328		2,803		25,814
Percent			7.34			34.18		2.54		5.37		49.44
Sample Size			26			121		9		19		175
Mean Length			481			556		481		549		540
Std. Error			5			2		7		6		2
Both Sexes			7,228			35,106		1,623		8,113		148
Percent			13.84			67.23		3.11		15.54		0.28
Sample Size			49			238		11		55		1
Mean Length			484			559		492		547		576
Std. Error			3			2		9		4		1

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Table 6.-Page 2 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 2:	2 July											
Males	104		1,722		6,105	52	52	887		52	8,974	
Percent	0.61		10.16		36	0.31	0.31	5.23		0.31	52.92	
Sample Size	2		33		117	1	1	17		1	172	
Mean Length	597		502		577	492	569	561		571	561	
Std. Error	12		5		3			6			2	
Females			1,826		5,061	157	52	887			7,983	
Percent			10.77		29.85	0.93	0.31	5.23			47.08	
Sample Size			35		97	3	1	17			153	
Mean Length			500		562	518	553	557			546	
Std. Error			5		3	25		10			3	
Both Sexes	104		3,548		11,166	209	104	1,774		52	16,957	
Percent	0.61		20.92		65.85	1.23	0.61	10.46		0.31	100	
Sample Size	2		68		214	4	2	34		1	325	
Mean Length	597		501		570	512	561	559		571	554	
Std. Error	12		3		2	25		6			2	

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Table 6.—Page 3 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 3:	4 - 5 July											
Males		2,713		7,283		785		71		1,285		12,137
Percent		9.5		25.5		2.75		0.25		4.5		42.5
Sample Size		38		102		11		1		18		170
Mean Length		490		571		513		624		550		547
Std. Error		4		4		10		9				3
Females		4,141		9,138		714		2,427				16,420
Percent		14.5		32		2.5		8.5				57.5
Sample Size		58		128		10		34				230
Mean Length		482		560		504		554				537
Std. Error		4		3		9		5				2
Both Sexes		6,854		16,421		1,499		71		3,712		28,557
Percent		24		57.5		5.25		0.25		13		100
Sample Size		96		230		21		1		52		400
Mean Length		485		565		508		624		553		541
Std. Error		3		2		7		4				2

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Table 6.—Page 4 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 4:	9 July											
Males	68	4,141		10,455	611	68	950					16,293
Percent	0.24	14.49		36.58	2.14	0.24	3.32					57.01
Sample Size	1	61		154	9	1	14					240
Mean Length	560	489		570	497	611	542					545
Std. Error		4		3	11		7					2
Females	68	1,426		8,825	407	68	1,494					12,288
Percent	0.24	4.99		30.88	1.42	0.24	5.23					42.99
Sample Size	1	21		130	6	1	22					181
Mean Length	581	492		563	496	553	547					550
Std. Error		6		2	11		5					2
Both Sexes	136	5,567		19,280	1,018	136	2,444					28,581
Percent	0.48	19.48		67.46	3.56	0.48	8.55					100
Sample Size	2	82		284	15	2	36					421
Mean Length	571	490		567	496	582	545					547
Std. Error		3		2	8		4					1

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Table 6.—Page 5 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 5:	11 - 12 July											
Males			6,590			18,014		2,636		3,075		30,315
Percent			10			27.33		4		4.67		46
Sample Size			30			82		12		14		138
Mean Length			478			579		488		552		547
Std. Error			3			3		8		7		2
Females			9,007			19,771		3,954		220		2,636
Percent			13.67			30		6		0.33		4
Sample Size			41			90		18		1		12
Mean Length			476			574		476		575		548
Std. Error			4			3		5		9		2
Both Sexes			15,597			37,785		6,590		220		5,711
Percent			23.67			57.33		10		0.33		8.67
Sample Size			71			172		30		1		26
Mean Length			477			576		481		575		550
Std. Error			3			2		5		6		2

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Table 6.—Page 6 of 13.

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	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 6:	14 - 16 July											
Males	112		224	7,068		11,781	2,580	561	2,580	112		25,018
Percent	0.24		0.49	15.33		25.55	5.6	1.22	5.6	0.24		54.26
Sample Size	1		2	63		105	23	5	23	1		223
Mean Length	453		575	480		587	490	624	566	602		545
Std. Error			8	4		3	6	6	8			2
Females		112		5,385		12,567	1,234	224	1,458	112		21,092
Percent		0.24		11.68		27.25	2.68	0.49	3.16	0.24		45.74
Sample Size		1		48		112	11	2	13	1		188
Mean Length		570		485		576	509	609	573	613		549
Std. Error				3		3	12	21	8			2
Both Sexes	112		336	12,453		24,348	3,814	785	4,038	224		46,110
Percent	0.24		0.73	27.01		52.8	8.27	1.7	8.76	0.49		100
Sample Size	1		3	111		217	34	7	36	2		411
Mean Length	453		573	482		581	496	620	569	608		547
Std. Error			8	2		2	6	7	6			1

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Table 6.–Page 7 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 7:	18 - 21 July ^b											
Males		389	14,393		48,237	6,613	389	4,668			74,689	
Percent		0.24	9.05		30.32	4.16	0.24	2.93			46.94	
Sample Size		1	37		124	17	1	12			192	
Mean Length		585	484		589	504	600	567			560	
Std. Error			4		3	8		13			2	
Females	389	778	15,171		55,240	1,945		10,892			84,415	
Percent	0.24	0.49	9.54		34.72	1.22		6.85			53.06	
Sample Size	1	2	39		142	5		28			217	
Mean Length	509	495	486		579	517		567			558	
Std. Error		67	4		2	17		6			2	
Both Sexes	389	1,167	29,564		103,477	8,558	389	15,560			159,104	
Percent	0.24	0.73	18.58		65.04	5.38	0.24	9.78			100	
Sample Size	1	3	76		266	22	1	40			409	
Mean Length	509	525	485		584	507	600	567			559	
Std. Error		67	3		2	8		6			1	

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Table 6.—Page 8 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 8:	22 - 23 July											
Males		86	4,232		259	7,946	1,727	173	864	86		15,373
Percent		0.3	14.98		0.92	28.14	6.12	0.61	3.06	0.3		54.43
Sample Size		1	49		3	92	20	2	10	1		178
Mean Length		610	472		341	596	481	603	572	632		544
Std. Error			4		21	3	7	23	12			2
Females		86	4,146		6,564	1,382		605	86			12,869
Percent		0.3	14.68		23.24	4.89		2.14	0.3			45.57
Sample Size		1	48		76	16		7	1			149
Mean Length		340	474		575	486		564	619			531
Std. Error			3		3	11		11				2
Both Sexes		86	86	8,378	259	14,510	3,109	173	1,469	172		28,242
Percent		0.3	0.3	29.67	0.92	51.38	11.01	0.61	5.2	0.61		100
Sample Size		1	1	97	3	168	36	2	17	2		327
Mean Length		340	610	473	341	586	483	603	568	626		538
Std. Error			2		21	2	6	23	8			2

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Table 6.—Page 9 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 9:	25 - 28 July ^c											
Males	4,167			9,839		2,894		232	4,051		21,183	
Percent	8.7			20.53		6.04		0.48	8.45		44.2	
Sample Size	36			85		25		2	35		183	
Mean Length	493			577		485		630	547		543	
Std. Error	6			4		5		6	6		2	
Females	3,125			15,395		2,547		232	5,441		26,740	
Percent	6.52			32.12		5.31		0.48	11.35		55.8	
Sample Size	27			133		22		2	47		231	
Mean Length	479			560		486		621	549		542	
Std. Error	4			2		6		2	4		2	
Both Sexes	7,292			25,234		5,441		464	9,492		47,923	
Percent	15.22			52.66		11.35		0.97	19.81		100	
Sample Size	63			218		47		4	82		414	
Mean Length	487			567		486		626	548		542	
Std. Error	4			2		4		3	3		1	

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Table 6.—Page 10 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 10:	30 - 31 July											
Males	50	2,196		5,341		1,647		1,847		200		11,281
Percent	0.24	10.47		25.48		7.86		8.81		0.95		53.81
Sample Size	1	44		107		33		37		4		226
Mean Length	578	489		562		491		544		598		535
Std. Error		5		3		6		5		17		2
Females		1,398		5,540		1,498		50		150		9,684
Percent		6.67		26.42		7.15		0.24		5		46.19
Sample Size		28		111		30		1		21		194
Mean Length		475		559		505		568		571		538
Std. Error		6		3		6		6		4		2
Both Sexes	50	3,594		10,881		3,145		50		2,895		20,965
Percent	0.24	17.14		51.9		15		0.24		13.81		100
Sample Size	1	72		218		63		1		58		420
Mean Length	578	483		561		497		568		549		537
Std. Error		4		2		4		4		10		2

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Table 6.—Page 11 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 11:	1 - 2 August											
Males	35	1,073	35	3,636	589	1,004					6,372	
Percent	0.29	9.01	0.29	30.52	4.94	8.43					53.49	
Sample Size	1	31	1	105	17	29					184	
Mean Length	590	489	397	572	505	557					548	
Std. Error		7		6	13	7					4	
Females	35	727	104	3,012	796	866					5,540	
Percent	0.29	6.1	0.87	25.29	6.68	7.27					46.51	
Sample Size	1	21	3	87	23	25					160	
Mean Length	528	489	374	555	500	550					534	
Std. Error		8	5	3	6	5					2	
Both Sexes	70	1,800	139	6,648	1,385	1,870					11,912	
Percent	0.59	15.11	1.17	55.81	11.63	15.7					100	
Sample Size	2	52	4	192	40	54					344	
Mean Length	559	489	380	564	502	554					542	
Std. Error		5	5	3	6	4					2	

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Table 6.—Page 12 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 12:	5 - 9 August											
Males			1,907			11,799		989		2,119	71	16,885
Percent			6.57			40.64		3.41		7.3	0.24	58.15
Sample Size			27			167		14		30	1	239
Mean Length			510			565		510		557	624	555
Std. Error			6			2		9		6		2
Females			565			8,266		918		212	2,190	12,151
Percent			1.95			28.47		3.16		0.73	7.54	41.85
Sample Size			8			117		13		3	31	172
Mean Length			472			555		486		576	545	545
Std. Error			9			2		10		5	5	2
Both Sexes			2,472			20,065		1,907		212	4,309	71
Percent			8.51			69.1		6.57		0.73	14.84	0.24
Sample Size			35			284		27		3	61	1
Mean Length			501			561		498		576	551	551
Std. Error			5			2		7		5	4	1

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Table 6.—Page 13 of 13.

	Age Group											
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
All Periods Combined:												
Males	112		956	53,595	294	157,694	21,418	1,546	28,640	469	200	264,924
Percent	0.02		0.18	10.01	0.05	29.45	4	0.29	5.35	0.09	0.04	49.47
Sample Size	1		9	472	4	1,357	184	13	275	7	2	2,324
Mean Length	453		584	485	348	579	496	614	554	609	575	551
Std. Error			7	2	21	1	3	6	3	17		1
Females	389	86	993	50,752	104	167,227	16,880	1,058	32,747	348		270,584
Percent	0.07	0.02	0.19	9.48	0.02	31.23	3.15	0.2	6.12	0.06		50.53
Sample Size	1	1	5	400	3	1,344	166	11	276	5		2,212
Mean Length	509	340	511	482	374	569	492	590	557	596		546
Std. Error			67	2	5	1	3	7	2	4		1
Both Sexes	501	86	1,949	104,347	398	324,921	38,298	2,604	61,387	817	200	535,508
Percent	0.09	0.02	0.36	19.49	0.07	60.68	7.15	0.49	11.46	0.15	0.04	100
Sample Size	2	1	14	872	7	2,701	350	24	551	12	2	4,536
Mean Length	496	340	547	484	355	574	494	604	556	604	575	548
Std. Error			47	1	15	1	2	4	2	10		1

^a Mean length in mm.^b Kasilof Section open within 1/2 mile of shore 7/18 1100–2200, 7/20 1400–2400.^c Kasilof Section open within 1/2 mile of shore 7/25 1000–1800, 7/27 0800–2000.

Table 7.—Age, sex, and length composition of sockeye salmon in the North Kalifornsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 1:	9 - 12 July										
Males		4	208		908	47	32	129			1,328
Percent		0.16	8.34		36.39	1.88	1.28	5.17			53.23
Sample Size		1	58		254	13	9	36			371
Mean Length ^a		623	493		586	497	637	562			567
Std. Error			4		2	9	6	7			2
Females		4	161		833	36	7	122	4		1,167
Percent		0.16	6.45		33.39	1.44	0.28	4.89	0.16		46.77
Sample Size		1	45		233	10	2	34	1		326
Mean Length		364	487		574	491	626	556	580		557
Std. Error			4		2	11	16	6			2
Both Sexes		4	4	369		1,741	83	39	251	4	2,495
Percent		0.16	0.16	14.79		69.78	3.33	1.56	10.06	0.16	100
Sample Size		1	1	103		487	23	11	70	1	697
Mean Length		364	623	490		580	494	635	559	580	563
Std. Error				3		1	7	6	5		1

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Table 7.—Page 2 of 9.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 2:	16 July										
Males		3	311		285	63	20	63	3	748	
Percent		0.22	22.54		20.65	4.57	1.45	4.57	0.22	54.2	
Sample Size		1	94		86	19	6	19	1	226	
Mean											
Length		565	476		566	488	628	545	610	522	
Std. Error			2		4	6	6	7		2	
Females		3	185		325	83		36		632	
Percent		0.22	13.41		23.55	6.01		2.61		45.8	
Sample Size		1	56		98	25		11		191	
Mean											
Length		556	479		558	492		541		525	
Std. Error			4		3	4		9		2	
Both Sexes		6	496		610	146	20	99	3	1,380	
Percent		0.43	35.94		44.2	10.58	1.45	7.17	0.22	100	
Sample Size		2	150		184	44	6	30	1	417	
Mean											
Length		561	477		561	491	628	543	610	523	
Std. Error			2		2	4	6	5		1	

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Table 7.—Page 3 of 9.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 3:	19 July										
Males		13	768		1,741	256	13	256			3,047
Percent		0.24	14.25		32.3	4.75	0.24	4.75			56.53
Sample Size		1	60		136	20	1	20			238
Mean											
Length		581	475		584	479	625	554			545
Std. Error			4		3	6		10			2
Females			525		1,434	192		192			2,343
Percent			9.74		26.6	3.56		3.56			43.47
Sample Size			41		112	15		15			183
Mean											
Length			481		561	482		546			536
Std. Error			4		3	10		9			2
Both Sexes		13	1,293		3,175	448	13	448			5,390
Percent		0.24	23.99		58.91	8.31	0.24	8.31			100
Sample Size		1	101		248	35	1	35			421
Mean											
Length		581	477		574	480	625	551			541
Std. Error			3		2	5		7			2

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Table 7.—Page 4 of 9.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 4:	21 - 23 July										
Males	79			4,014		8,656	1,417	236	1,417	79	15,898
Percent	0.24			12.44		26.83	4.39	0.73	4.39	0.24	49.27
Sample Size	1			51		110	18	3	18	1	202
Mean											
Length	456			472		580	489	635	564	662	544
Std. Error				3		4	9	17	9		3
Females				3,778		9,286	1,417	79	1,731	79	16,370
Percent				11.71		28.78	4.39	0.24	5.36	0.24	50.73
Sample Size				48		118	18	1	22	1	208
Mean											
Length				473		568	488	629	539	588	537
Std. Error				4		2	10		6		2
Both Sexes	79			7,792		17,942	2,834	315	3,148	158	32,268
Percent	0.24			24.15		55.6	8.78	0.98	9.76	0.49	100
Sample Size	1			99		228	36	4	40	2	410
Mean											
Length	456			472		574	488	633	550	625	540
Std. Error				3		2	7	17	5		2

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Table 7.—Page 5 of 9.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 5:	26 - 28 July										
Males		63	1,501		8,631	1,501	375	2,314	63	14,448	
Percent		0.24	5.81		33.41	5.81	1.45	8.96	0.24	55.93	
Sample Size		1	24		138	24	6	37	1	231	
Mean											
Length		538	490		575	504	614	555	633	557	
Std. Error			8		3	7	13	5		2	
Females		938		8,506	625	63	1,126	125	11,383		
Percent		3.63		32.93	2.42	0.24	4.36	0.48	44.07		
Sample Size		15		136	10	1	18	2	182		
Mean											
Length		474		563	520	553	550	565	552		
Std. Error		5		2	10		8	8	2		
Both Sexes		63	2,439		17,137	2,126	438	3,440	188	25,831	
Percent		0.24	9.44		66.34	8.23	1.7	13.32	0.73	100	
Sample Size		1	39		274	34	7	55	3	413	
Mean											
Length		538	484		569	509	606	553	587	555	
Std. Error			5		2	6	13	4	8	2	

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Table 7.—Page 6 of 9.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 6:	30 - 31 July										
Males				1,145		3,569	370	101	842	34	6,061
Percent				8.38		26.11	2.71	0.74	6.16	0.25	44.34
Sample Size				34		106	11	3	25	1	180
Mean											
Length				490		581	503	624	556	598	557
Std. Error				5		3	12	9	9		2
Females	34			505		5,588	539	101	842		7,609
Percent	0.25			3.69		40.88	3.94	0.74	6.16		55.66
Sample Size	1			15		166	16	3	25		226
Mean											
Length	481			480		556	500	598	542		546
Std. Error				9		2	9	2	6		2
Both Sexes	34			1,650		9,157	909	202	1,684	34	13,670
Percent	0.25			12.07		66.99	6.65	1.48	12.32	0.25	100
Sample Size	1			49		272	27	6	50	1	406
Mean											
Length	481			487		566	501	611	549	598	551
Std. Error				4		2	7	5	6		1

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Table 7.—Page 7 of 9.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 7:	1 - 2 August										
Males	30		254	15	2,415	254	45	313	15		3,341
Percent	0.54		4.59	0.27	43.64	4.59	0.81	5.66	0.27		60.37
Sample Size	2		17	1	162	17	3	21	1		224
Mean Length	311		497	350	577	506	625	550	625		561
Std. Error	10		8		3	7	12	8			2
Females			119		1,656	149	15	254			2,193
Percent			2.15		29.92	2.69	0.27	4.59			39.63
Sample Size			8		111	10	1	17			147
Mean Length			490		561	507	538	539			551
Std. Error			15		2	6		7			2
Both Sexes	30		373	15	4,071	403	60	567	15		5,534
Percent	0.54		6.74	0.27	73.56	7.28	1.08	10.25	0.27		100
Sample Size	2		25	1	273	27	4	38	1		371
Mean Length	311		495	350	571	506	603	545	625		557
Std. Error	10		7		2	5	12	5			2

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Table 7.—Page 8 of 9.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period 8:	5 - 9 August										
Males				1,446	90	7,635	813	136	1,355	45	11,520
Percent				7.77	0.48	41.02	4.37	0.73	7.28	0.24	61.9
Sample Size				32	2	169	18	3	30	1	255
Mean											
Length				505	376	570	513	609	558	586	555
Std. Error				6	29	2	7	17	5		2
Females	45			226		5,601	136		994	90	7,092
Percent	0.24			1.21		30.09	0.73		5.34	0.48	38.1
Sample Size	1			5		124	3		22	2	157
Mean											
Length	342			484		552	512		541	612	547
Std. Error				21		2	1		5	23	2
Both Sexes	45			1,672	90	13,236	949	136	2,349	135	18,612
Percent	0.24			8.98	0.48	71.12	5.1	0.73	12.62	0.73	100
Sample Size	1			37	2	293	21	3	52	3	412
Mean											
Length	342			502	376	562	513	609	551	603	552
Std. Error				6	29	2	6	17	4	23	1

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Table 7.—Page 9 of 9.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
All Period Combined:											
Males	79	30	83	9,647	105	33,840	4,721	958	6,689	239	56,391
Percent	0.08	0.03	0.08	9.17	0.1	32.17	4.49	0.91	6.36	0.23	53.61
Sample Size	1	2	4	370	3	1,161	140	34	206	6	1,927
Mean											
Length	456	311	550	483	372	577	499	621	557	628	552
Std. Error		10		2	29	1	4	7	3		1
Females	34	49	3	6,437		33,229	3,177	265	5,297	298	48,789
Percent	0.03	0.05	0	6.12		31.59	3.02	0.25	5.04	0.28	46.39
Sample Size	1	2	1	233		1,098	107	8	164	6	1,620
Mean											
Length	481	344	556	476		562	498	594	543	585	544
Std. Error				3		1	5	2	3	11	1
Both Sexes	113	79	86	16,084	105	67,069	7,898	1,223	11,986	537	105,180
Percent	0.11	0.08	0.08	15.29	0.1	63.77	7.51	1.16	11.4	0.51	100
Sample Size	2	4	5	603	3	2,259	247	42	370	12	3,547
Mean											
Length	464	331	550	480	372	569	499	615	551	604	548
Std. Error		10		2	29	1	3	6	2	11	1

^a Mean length in mm.

Table 8.—Age, sex, and length composition of sockeye salmon in the South Kalifornsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 1:	25 June - 5 July												
Males				1,831		4,534	174	58	1,221		29		7,847
Percent				10.41		25.79	0.99	0.33	6.94		0.16		44.63
Sample Size				63		156	6	2	42		1		270
Mean Length ^a				493		556	486	553	540		577		537
Std. Error				3		3	8	4	4				2
Females	29		29	1,133		6,685	378	29	1,453				9,736
Percent	0.16		0.16	6.44		38.02	2.15	0.16	8.26				55.37
Sample Size	1		1	39		230	13	1	50				335
Mean Length	441		548	486		548	492	534	542				537
Std. Error				4		2	7		3				1
Both Sexes	29		29	2,964		11,219	552	87	2,674		29		17,583
Percent	0.16		0.16	16.86		63.81	3.14	0.49	15.21		0.16		100
Sample Size	1		1	102		386	19	3	92		1		605
Mean Length	441		548	490		551	490	546	541		577		537
Std. Error				2		1	5	4	3				1

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Table 8.—Page 2 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 2:	9 - 12 July												
Males			1,117			3,332	238	37	384				5,108
Percent			12.33			36.77	2.63	0.41	4.24				56.37
Sample Size			61			182	13	2	21				279
Mean													
Length			469			565	469	580	551				539
Std. Error			3			3	9	51	7				2
Females		18	641			2,782	92		421				3,954
Percent		0.2	7.07			30.7	1.02		4.65				43.63
Sample Size		1	35			152	5		23				216
Mean													
Length		554	472			557	482		542				540
Std. Error			4			2	4		6				2
Both Sexes		18	1,758			6,114	330	37	805				9,062
Percent		0.2	19.4			67.47	3.64	0.41	8.88				100
Sample Size		1	96			334	18	2	44				495
Mean													
Length		554	470			562	473	580	546				539
Std. Error			2			2	7	51	5				1

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Table 8.—Page 3 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 3:	14 - 16 July												
Males		36	1,275		2,695	583	73	401		36			5,099
Percent		0.33	11.71		24.75	5.35	0.67	3.68		0.33			46.83
Sample Size		1	35		74	16	2	11		1			140
Mean													
Length		619	480		580	493	622	577		615			546
Std. Error			4		4	8	1	14					3
Females		36	1,639		3,750	146		219					5,790
Percent		0.33	15.05		34.44	1.34		2.01					53.17
Sample Size		1	45		103	4		6					159
Mean													
Length		548	477		571	514		541					542
Std. Error			3		3	16		16					2
Both Sexes		72	2,914		6,445	729	73	620		36			10,889
Percent		0.66	26.76		59.19	6.69	0.67	5.69		0.33			100
Sample Size		2	80		177	20	2	17		1			299
Mean													
Length		584	479		575	497	622	564		615			544
Std. Error			2		2	7	1	10					2

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Table 8.—Page 4 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 4:	18 - 20 July ^b												
Males		5,294			13,581	1,266	345	806	115	345			21,752
Percent Sample Size		11.5			29.5	2.75	0.75	1.75	0.25	0.75			47.25
Mean Length		46			118	11	3	7	1	3			189
Std. Error		478			588	471	638	547	551	599			554
		4			3	8	6	11		25			2
Females	115	6,215			13,121	1,841	230	2,532		230			24,284
Percent Sample Size	0.25	13.5			28.5	4	0.5	5.5		0.5			52.75
Mean Length	1	54			114	16	2	22		2			211
Std. Error	537	483			568	483	573	554		588			538
		4			3	6	2	8		28			2
Both Sexes	115	11,509			26,702	3,107	575	3,338	115	575			46,036
Percent Sample Size	0.25	25			58	6.75	1.25	7.25	0.25	1.25			100
Mean Length	1	100			232	27	5	29	1	5			400
Std. Error	537	481			578	478	612	553	551	595			546
		3			2	5	3	6		19			2

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Table 8.—Page 5 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 5:		21 - 23 July											
Males	72	8,463		4,196	2,677	579							15,987
Percent Sample Size	0.24	27.79		13.78	8.79	1.9							52.49
Mean Length	1	117		58	37	8							221
Std. Error	554	459		573	469	546							494
		2		5	5	12							2
Females	72	7,597		4,340	1,808	651							14,468
Percent Sample Size	0.24	24.95		14.25	5.94	2.14							47.51
Mean Length	1	105		60	25	9							200
Std. Error	559	464		558	469	539							497
		2		4	4	17							2
Both Sexes	144	16,060		8,536	4,485	1,230							30,455
Percent Sample Size	0.47	52.73		28.03	14.73	4.04							100
Mean Length	2	222		118	62	17							421
Std. Error	557	461		565	469	542							495
		2		3	3	11							1

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Table 8.—Page 6 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 6:	25 - 28 July ^c												
Males		5,841	80	7,201	2,801	80	2,640	80					18,723
Percent Sample Size		17.38	0.24	21.43	8.33	0.24	7.86	0.24					55.71
Mean Length		73	1	90	35	1	33	1					234
Std. Error		471	328	544	477	631	519	584					507
		4		4	6		6						2
Females		4,161		6,322	1,840	160	2,400						14,883
Percent Sample Size		12.38		18.81	5.48	0.48	7.14						44.29
Mean Length		52		79	23	2	30						186
Std. Error		467		543	479	604	535						513
		3		4	7	15	5						2
Both Sexes		10,002	80	13,523	4,641	240	5,040	80					33,606
Percent Sample Size		29.76	0.24	40.24	13.81	0.71	15	0.24					100
Mean Length		125	1	169	58	3	63	1					420
Std. Error		469	328	543	477	613	526	584					510
		3		3	4	15	4						2

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Table 8.—Page 7 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 7:	30 July - 2 August												
Males			2,960		3,375	1,142		675		52		8,204	
Percent			15.88		18.11	6.13		3.62		0.28		44.01	
Sample Size			57		65	22		13		1		158	
Mean Length			474		573	477		550		599		523	
Std. Error			5		5	5		12				3	
Females	104		2,648	52	4,517	1,921	104	987	52	52		10,437	
Percent	0.56		14.21	0.28	24.23	10.31	0.56	5.29	0.28	0.28		55.99	
Sample Size	2		51	1	87	37	2	19	1	1		201	
Mean Length	343		467	368	555	488	593	544	509	603		516	
Std. Error	3		3		3	5	20	6				2	
Both Sexes	104		5,608	52	7,892	3,063	104	1,662	52	104		18,641	
Percent	0.56		30.08	0.28	42.34	16.43	0.56	8.92	0.28	0.56		100	
Sample Size	2		108	1	152	59	2	32	1	2		359	
Mean Length	343		471	368	563	484	593	546	509	601		519	
Std. Error	3		3		3	4	20	6				2	

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Table 8.—Page 8 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 8:	5 - 9 August												
Males		1,063		5,151	900	82	1,186		41				8,423
Percent Sample Size		6.22		30.14	5.27	0.48	6.94		0.24				49.28
Mean Length		26		126	22	2	29		1				206
Std. Error		498		574	512	588	552		622				555
		6		3	8	6	6						2
Females		1,063		5,152	1,227		1,104	41	41	41			8,669
Percent Sample Size		6.22		30.14	7.18		6.46	0.24	0.24	0.24			50.72
Mean Length		26		126	30		27	1	1	1			212
Std. Error		463		553	479		545	507	620	543			531
		4		2	5		6						2
Both Sexes		2,126		10,303	2,127	82	2,290	41	82	41			17,092
Percent Sample Size		12.44		60.28	12.44	0.48	13.4	0.24	0.48	0.24			100
Mean Length		52		252	52	2	56	1	2	1			418
Std. Error		480		564	493	588	548	507	621	543			543
		4		2	5	6	4						2

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Table 8.—Page 9 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
All Period Combined:													
Males		108	27,844	80	44,065	9,781	675	7,892	115	583		91,143	
Percent Sample Size		0.06	15.19	0.04	24.03	5.33	0.37	4.3	0.06	0.32		49.71	
Mean Length		2	478	1	869	162	12	164	1	8		1,697	
Std. Error		576	472	328	571	478	619	539	551	599		528	
		1	1		1	3	5	3		25		1	
Females	29	104	270	25,097	52	46,669	9,253	523	9,767	93	323	41	92,221
Percent Sample Size	0.02	0.06	0.15	13.69	0.03	25.45	5.05	0.29	5.33	0.05	0.18	0.02	50.29
Mean Length	1	2	5	407	1	951	153	7	186	2	4	1	1,720
Std. Error	441	343	547	471	368	557	480	584	544	508	594	543	525
		3		1		1	2	6	3		28		1
Both Sexes	29	104	378	52,941	132	90,734	19,034	1,198	17,659	208	906	41	183,364
Percent Sample Size	0.02	0.06	0.21	28.87	0.07	49.48	10.38	0.65	9.63	0.11	0.49	0.02	100
Mean Length	1	2	7	885	2	1,820	315	19	350	3	12	1	3,417
Std. Error	441	343	555	472	344	564	479	604	542	532	597	543	527
		3		1		1	2	4	2		19		1

^a Mean length in mm.^b Kasilof Section open within 1/2 mile of shore 7/18 1100–2200, 7/20 1400–2400.^c Kasilof Section open within 1/2 mile of shore 7/25 1000–1800, 7/27 0800–2000.

Table 9.—Age, sex, and length composition of sockeye salmon in the combined Kalifornsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 1:	25 June - 5 July	South K-Beach ^a											
Males			1,831		4,534	174	58	1,221		29			7,847
Percent			10.41		25.79	0.99	0.33	6.94		0.16			44.63
Sample Size			63		156	6	2	42		1			270
Mean Length ^b			493		556	486	553	540		577			537
Std. Error			3		3	8	4	4					2
Females	29	29	1,133		6,685	378	29	1,453					9,736
Percent	0.16	0.16	6.44		38.02	2.15	0.16	8.26					55.37
Sample Size	1	1	39		230	13	1	50					335
Mean Length	441	548	486		548	492	534	542					537
Std. Error			4		2	7		3					1
Both Sexes	29	29	2,964		11,219	552	87	2,674		29			17,583
Percent	0.16	0.16	16.86		63.81	3.14	0.49	15.21		0.16			100
Sample Size	1	1	102		386	19	3	92		1			605
Mean Length	441	548	490		551	490	546	541		577			537
Std. Error			2		1	5	4	3					1

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Table 9.—Page 2 of 9.

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	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 2:	9 - 12 July												
Males		10	1,154		4,226	252	107	553					6,302
Percent		0.09	9.99		36.57	2.18	0.93	4.78					54.53
Sample Size		1	119		436	26	11	57					650
Mean													
Length		623	481		577	483	626	558					555
Std. Error				3		2	7	11					1
Females		10	10	776		3,732	145	19	553		10		5,255
Percent		0.09	0.09	6.71		32.29	1.25	0.16	4.78		0.09		45.47
Sample Size		1	1	80		385	15	2	57		1		542
Mean													
Length		364	554	480		568	488	626	550		580		551
Std. Error					3		2	8	16		5		1
Both Sexes		10	20	1,930		7,958	397	126	1,106		10		11,557
Percent		0.09	0.17	16.7		68.86	3.44	1.09	9.57		0.09		100
Sample Size		1	2	199		821	41	13	114		1		1,192
Mean													
Length		364	589	481		573	485	626	554		580		553
Std. Error					2		1	5	10		3		1

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Table 9.—Page 3 of 9.

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	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 3:	14 - 16 July												
Males		34	2,210		2,743	600	137	514		34		6,272	
Percent		0.28	18.01		22.36	4.89	1.12	4.19		0.28		51.12	
Sample Size		2	129		160	35	8	30		2		366	
Mean													
Length		592	477		572	491	626	557		613		531	
Std. Error		27	2		3	5	5	7		3		2	
Sample Size		2	129		160	35	8	30		2		366	
Females		34	1,731		3,444	497		291				5,997	
Percent		0.28	14.11		28.07	4.05		2.37				48.88	
Sample Size		2	101		201	29		17				350	
Mean													
Length		552	478		565	495		541				533	
Std. Error		4	2		2	4		8				1	
Sample Size		2	101		201	29		17				350	
Both Sexes		68	3,941		6,187	1,097	137	805		34		12,269	
Percent		0.55	32.12		50.43	8.94	1.12	6.56		0.28		100	
Sample Size		4	230		361	64	8	47		2		716	
Mean													
Length		572	477		568	493	626	551		613		532	
Std. Error		14	2		2	3	5	5		3		1	
Sample Size		4	230		361	64	8	47		2		716	

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Table 9.—Page 4 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 4:	18 - 20 July												
Males	63	6,640		15,909	1,942	251	1,691	63	188				26,747
Percent	0.12	12.91		30.94	3.78	0.49	3.29	0.12	0.37				52.01
Sample Size	1	106		254	31	4	27	1	3				427
Mean													
Length	581	476		586	476	635	553	551	599				549
Std. Error		3		2	5	5	8		25				2
Females	63	5,951		14,155	1,942	125	2,318		125				24,679
Percent	0.12	11.57		27.52	3.78	0.24	4.51		0.24				47.99
Sample Size	1	95		226	31	2	37		2				394
Mean													
Length	537	482		565	482	573	551		588				537
Std. Error		3		2	6	2	6		28				2
Both Sexes	126	12,591		30,064	3,884	376	4,009	63	313				51,426
Percent	0.25	24.48		58.46	7.55	0.73	7.8	0.12	0.61				100
Sample Size	2	201		480	62	6	64	1	5				821
Mean													
Length	559	479		576	479	614	552	551	595				543
Std. Error		2		1	4	3	5		19				1

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Table 9.—Page 5 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 5:	21 - 23 July												
Males	75		75	12,684		12,680	4,151	226	1,962		75		31,928
Percent	0.12		0.12	20.22		20.22	6.62	0.36	3.13		0.12		50.9
Sample Size	1		1	168		168	55	3	26		1		423
Mean													
Length	456		554	463		578	475	635	558		662		518
Std. Error				2		3	5	17	7				2
Females			75	11,548		13,436	3,246	75	2,340		75		30,795
Percent			0.12	18.41		21.42	5.18	0.12	3.73		0.12		49.1
Sample Size			1	153		178	43	1	31		1		408
Mean													
Length			559	467		565	477	629	539		588		517
Std. Error				2		2	5		6				1
Both Sexes	75		150	24,232		26,116	7,397	301	4,302		150		62,723
Percent	0.12		0.24	38.63		41.64	11.79	0.48	6.86		0.24		100
Sample Size	1		2	321		346	98	4	57		2		831
Mean													
Length	456		557	465		571	476	634	548		625		517
Std. Error				1		2	3	17	5				1

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Table 9.—Page 6 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 6:	25 - 28 July												
Males	71	6,921	71	16,269	4,210	499	4,995	143	33,179				
Percent	0.12	11.64	0.12	27.37	7.08	0.84	8.4	0.24	55.82				
Sample Size	1	97	1	228	59	7	70	2	465				
Mean Length	538	476	328	563	488	617	538	609	532				
Std. Error		3		3	5	11	4	25	2				
Females		4,781		15,340	2,355	214	3,425	143	26,258				
Percent		8.04		25.81	3.96	0.36	5.76	0.24	44.18				
Sample Size		67		215	33	3	48	2	368				
Mean Length		469		556	491	587	540	565	532				
Std. Error		3		2	6	19	5	8	2				
Both Sexes	71	11,702	71	31,609	6,565	713	8,420	286	59,437				
Percent	0.12	19.69	0.12	53.18	11.05	1.2	14.17	0.48	100				
Sample Size	1	164	1	443	92	10	118	4	833				
Mean Length	538	473	328	559	489	608	539	587	532				
Std. Error		2		2	4	10	3	13	1				

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Table 9.—Page 7 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 7:	30 July - 2 August												
Males	67		3,598	33	11,093	1,666	200	1,966		100			18,723
Percent	0.18		9.51	0.09	29.31	4.4	0.53	5.19		0.26			49.47
Sample Size	2		108	1	333	50	6	59		3			562
Mean													
Length	311		483	350	578	493	625	553		607			549
Std. Error	10		3		2	4	7	5		9			1
Females	33	67	2,465	33	12,127	2,099	200	2,032	33	33			19,122
Percent	0.09	0.18	6.51	0.09	32.04	5.55	0.53	5.37	0.09	0.09			50.53
Sample Size	1	2	74	1	364	63	6	61	1	1			574
Mean													
Length	481	343	472	368	557	494	586	542	509	603			537
Std. Error		3		3		1	4	11	4				1
Both Sexes	33	134	6,063	66	23,220	3,765	400	3,998	33	133			37,845
Percent	0.09	0.35	16.02	0.17	61.36	9.95	1.06	10.56	0.09	0.35			100
Sample Size	1	4	182	2	697	113	12	120	1	4			1,136
Mean													
Length	481	327	479	359	567	493	605	547	509	606			543
Std. Error		5		2		1	3	6	3	9			1

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Table 9.—Page 8 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 8:	5 - 9 August												
Males			2,495	86	12,690	1,721	215	2,538			86		19,831
Percent			6.99	0.24	35.54	4.82	0.6	7.11			0.24		55.54
Sample Size			58	2	295	40	5	59			2		461
Mean													
Length			502	376	572	513	600	555			604		555
Std. Error			4	29	2	5	11	4			18		1
Females	43		1,334		10,753	1,420		2,108	43	129	43		15,873
Percent	0.12		3.74		30.12	3.98		5.9	0.12	0.36	0.12		44.46
Sample Size	1		31		250	33		49	1	3	1		369
Mean													
Length	342		467		553	482		543	507	615	543		538
Std. Error			5		2	5		4		14			1
Both Sexes	43		3,829	86	23,443	3,141	215	4,646	43	215	43		35,704
Percent	0.12		10.72	0.24	65.66	8.8	0.6	13.01	0.12	0.6	0.12		100
Sample Size	1		89	2	545	73	5	108	1	5	1		830
Mean													
Length	342		489	376	563	499	600	550	507	610	543		547
Std. Error			3	29	1	4	11	3		11			1

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Table 9.—Page 9 of 9.

	Age Group												
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
All Periods Combined:													
Males	75	67	253	37,533	190	80,144	14,716	1,693	15,440	63	655		150,829
Percent	0.03	0.02	0.09	13.01	0.07	27.78	5.1	0.59	5.35	0.02	0.23		52.27
Sample Size	1	2	6	848	4	2,030	302	46	370	1	14		3,624
Mean Length	456	311	564	475	353	574	486	620	548	551	610		538
Std. Error		10	27	1	29	1	2	4	2		11		1
Females	62	120	211	29,719	33	79,672	12,082	662	14,520	76	515	43	137,715
Percent	0.02	0.04	0.07	10.3	0.01	27.61	4.19	0.23	5.03	0.03	0.18	0.01	47.73
Sample Size	2	4	6	640	1	2,049	260	15	350	2	10	1	3,340
Mean Length	462	344	550	472	368	559	485	588	543	508	589	543	532
Std. Error		3	4	1		1	2	8	2		10		1
Both Sexes	137	187	464	67,252	223	159,816	26,798	2,355	29,960	139	1,170	43	288,544
Percent	0.05	0.06	0.16	23.31	0.08	55.39	9.29	0.82	10.38	0.05	0.41	0.01	100
Sample Size	3	6	12	1,488	5	4,079	562	61	720	3	24	1	6,964
Mean Length	459	332	557	474	355	566	486	611	546	527	601	543	535
Std. Error		5	14	1	29	1	2	4	1		8		0

^a Sample from South Kalifornsky Beach only. North Kalifornsky beach opened to commercial fishing 7/09/07.

^b Mean length in mm.

Table 10.—Age, sex, and length composition of sockeye salmon in the Salamatof Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 1:	9 July										
Males		146		1,961	61	37	146				2,351
Percent		2.86		38.42	1.2	0.72	2.86				46.06
Sample Size		12		161	5	3	12				193
Mean Length ^a		500		591	518	636	577				583
Std. Error		9		3	12	6	11				2
Females		110		2,351	85	24	183				2,753
Percent		2.16		46.06	1.67	0.47	3.59				53.94
Sample Size		9		193	7	2	15				226
Mean Length		510		580	523	617	582				576
Std. Error		13		2	14	6	6				2
Both Sexes		256		4,312	146	61	329				5,104
Percent		5.02		84.48	2.86	1.2	6.45				100
Sample Size		21		354	12	5	27				419
Mean Length		504		585	521	628	580				580
Std. Error		7		2	10	5	6				1

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Table 10.—Page 2 of 9.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 2:	12 July										
Males		86			981	16	94	94	31		1,302
Percent		2.84			32.42	0.53	3.11	3.11	1.02		43.03
Sample Size		11			126	2	12	12	4		167
Mean Length		510			606	515	639	597	636		601
Std. Error		8			2	18	4	9	4		2
Females		78			1,435	55	16	140			1,724
Percent		2.58			47.42	1.82	0.53	4.63			56.97
Sample Size		10			184	7	2	18			221
Mean Length		500			587	524	620	593			582
Std. Error		15			2	15	17	5			2
Both Sexes		164			2,416	71	110	234	31		3,026
Percent		5.42			79.84	2.35	3.64	7.73	1.02		100
Sample Size		21			310	9	14	30	4		388
Mean Length		506			594	522	636	595	636		590
Std. Error		8			1	12	4	5	4		1

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Table 10.—Page 3 of 9.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 3:	16 July										
Males	20	618			3,685	279	20	319		20	4,961
Percent	0.24	7.57			45.11	3.42	0.24	3.91		0.24	60.73
Sample Size	1	31			185	14	1	16		1	249
Mean Length	654	486			599	492	612	586		595	578
Std. Error		7			2	14		7			2
Females	219				2,730	20		239			3,208
Percent	2.68				33.42	0.24		2.93			39.27
Sample Size	11				137	1		12			161
Mean Length	492				579	494		579			572
Std. Error	9				2			7			2
Both Sexes	20	837			6,415	299	20	558		20	8,169
Percent	0.24	10.25			78.53	3.66	0.24	6.83		0.24	100
Sample Size	1	42			322	15	1	28		1	410
Mean Length	654	488			590	492	612	583		595	576
Std. Error		5			1	14		5			1

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Table 10.—Page 4 of 9.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 4:	19 - 23 July										
Males	550	1,649	4,397		85,749	1,649	1,099	8,795			103,888
Percent	0.24	0.73	1.94		37.86	0.73	0.49	3.88			45.87
Sample Size	1	3	8		156	3	2	16			189
Mean Length	438	605	505		596	529	625	585			590
Std. Error		6	18		2	21	36	7			2
Females		1,099	7,146		98,940	2,199	550	12,093	550		122,577
Percent		0.49	3.16		43.69	0.97	0.24	5.34	0.24		54.13
Sample Size		2	13		180	4	1	22	1		223
Mean Length		563	494		576	530	579	573	603		570
Std. Error		11	10		2	23		6			2
Both Sexes	550	2,748	11,543		184,689	3,848	1,649	20,888	550		226,465
Percent	0.24	1.21	5.1		81.55	1.7	0.73	9.22	0.24		100
Sample Size	1	5	21		336	7	3	38	1		412
Mean Length	438	588	498		585	529	610	578	603		579
Std. Error		5	9		1	16	36	4			1

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Table 10.—Page 5 of 9.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 5:	26 July										
Males	404	1,482	135	16,974	1,212	674	3,772				24,653
Percent	0.74	2.73	0.25	31.27	2.23	1.24	6.95				45.41
Sample Size	3	11	1	126	9	5	28				183
Mean Length	591	491	350	597	499	629	581				583
Std. Error	12	13		2	11	13	6				2
Females	269	1,886		22,363	1,617	404	3,098				29,637
Percent	0.5	3.47		41.19	2.98	0.74	5.71				54.59
Sample Size	2	14		166	12	3	23				220
Mean Length	570	498		573	507	621	561				564
Std. Error	10	9		2	10	9	5				2
Both Sexes	673	3,368	135	39,337	2,829	1,078	6,870				54,290
Percent	1.24	6.2	0.25	72.46	5.21	1.99	12.65				100
Sample Size	5	25	1	292	21	8	51				403
Mean Length	583	495	350	584	504	626	572				573
Std. Error	8	8		1	7	9	4				1

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Table 10.—Page 6 of 9.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 6:	28 - 31 July										
Males	216	1,299			33,775	1,082	3,031	3,897	1,082		44,382
Percent	0.24	1.45			37.77	1.21	3.39	4.36	1.21		49.64
Sample Size	1	6			156	5	14	18	5		205
Mean Length	501	493			601	534	639	596	621		598
Std. Error		15			2	9	4	7	7		2
Females	216	649			39,621	1,515	216	2,381	433		45,031
Percent	0.24	0.73			44.31	1.69	0.24	2.66	0.48		50.36
Sample Size	1	3			183	7	1	11	2		208
Mean Length	543	493			578	528	542	573	618		574
Std. Error		31			2	15		7	4		2
Both Sexes	432	1,948			73,396	2,597	3,247	6,278	1,515		89,413
Percent	0.48	2.18			82.09	2.9	3.63	7.02	1.69		100
Sample Size	2	9			339	12	15	29	7		413
Mean Length	522	493			588	530	632	587	620		586
Std. Error		14			1	9	4	5	5		1

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Table 10.–Page 7 of 9.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 7:	1 - 2 August										
Males	107	1,502			17,590	1,394	107	2,038			22,738
Percent	0.24	3.36			39.33	3.12	0.24	4.56			50.84
Sample Size	1	14			164	13	1	19			212
Mean Length	620	506			584	524	596	574			574
Std. Error		7			2	7		6			2
Females	965	107			15,552	2,360	215	2,789			21,988
Percent	2.16	0.24			34.77	5.28	0.48	6.24			49.16
Sample Size	9	1			145	22	2	26			205
Mean Length	504	404			563	514	571	555			554
Std. Error		11			2	5	20	4			2
Both Sexes	107	2,467			33,142	3,754	322	4,827			44,726
Percent	0.24	5.52			74.1	8.39	0.72	10.79			100
Sample Size	1	23			309	35	3	45			417
Mean Length	620	505			574	518	579	563			564
Std. Error		6			1	4	20	4			1

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Table 10.—Page 8 of 9.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Sample Period 8:	5 - 9 August										
Males		2,209			33,734	1,406	201	4,217	402		42,169
Percent		2.68			40.87	1.7	0.24	5.11	0.49		51.09
Sample Size		11			168	7	1	21	2		210
Mean Length		509			585	510	626	573	622		578
Std. Error		13			2	6		6	15		2
Females	402	2,209			29,919	2,811	402	4,619			40,362
Percent	0.49	2.68			36.25	3.41	0.49	5.6			48.91
Sample Size	2	11			149	14	2	23			201
Mean Length	557	507			568	519	584	558			560
Std. Error	12	10			2	7	14	5			2
Both Sexes	402	4,418			63,653	4,217	603	8,836	402		82,531
Percent	0.49	5.35			77.13	5.11	0.73	10.71	0.49		100
Sample Size	2	22			317	21	3	44	2		411
Mean Length	557	508			577	516	598	565	622		569
Std. Error	12	8			1	5	14	4	15		1

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Table 10.—Page 9 of 9.

	Age Group										
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
All Periods Combined:											
Males	550	2,396	11,739	135	194,449	7,099	5,263	23,278	1,515	20	246,444
Percent	0.11	0.47	2.29	0.03	37.85	1.38	1.02	4.53	0.29	0	47.97
Sample Size	1	9	104	1	1,242	58	39	142	11	1	1,608
Mean Length	438	594	502	350	594	518	633	583	622	595	587
Std. Error		5	8		1	6	8	3	6		1
Females		1,986	13,262	107	212,911	10,662	1,827	25,542	983		267,280
Percent		0.39	2.58	0.02	41.44	2.08	0.36	4.97	0.19		52.03
Sample Size		7	80	1	1,337	74	13	150	3		1,665
Mean Length		560	497	404	574	519	585	567	609		567
Std. Error		7	6		1	6	8	3	4		1
Both Sexes	550	4,382	25,001	242	407,360	17,761	7,090	48,820	2,498	20	513,724
Percent	0.11	0.85	4.87	0.05	79.3	3.46	1.38	9.5	0.49	0	100
Sample Size	1	16	184	2	2,579	132	52	292	14	1	3,273
Mean Length	438	579	499	374	584	519	621	575	617	595	577
Std. Error		4	5		1	4	7	2	5		1

^a Mean length in mm.

Table 11.—Age, sex, and length composition of sockeye salmon in Eastern Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group									
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Period:	28 May - 10 September									
Males	63	856	32	3,105	222	63	317	32	4,690	
Percent	0.68	9.28	0.35	33.67	2.41	0.68	3.44	0.35	50.86	
Sample Size	2	27	1	98	7	2	10	1	148	
Mean Length ^a	573	504	405	576	506	565	549	590	556	
Std. Error	25	7		3	16	25	7		3	
Females	32		919		2,662	380		539		4,532
Percent	0.35		9.97		28.87	4.12		5.84		49.14
Sample Size	1		29		84	12		17		143
Mean Length	553		486		563	477		549		538
Std. Error			7		3	13		5		3
Both Sexes	32	63	1,775	32	5,767	602	63	856	32	9,222
Percent	0.35	0.68	19.25	0.35	62.54	6.53	0.68	9.28	0.35	100
Sample Size	1	2	56	1	182	19	2	27	1	291
Mean Length	553	573	495	405	570	487	565	549	590	547
Std. Error		25	5		2	10	25	4		2

^a Mean length in mm.

Table 12.—Age, sex, and length composition of sockeye salmon in the Western Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group								
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Sample Period 1:	18 June - 13 July								
Males		1,321		9,568	264		951	53	12,157
Percent		4.84		35.08	0.97		3.49	0.19	44.57
Sample Size		25		181	5		18	1	230
Mean Length ^a		519		575	512		568	593	567
Std. Error		8		2	14		8		2
Females	211	1,480		11,312	740		1,374		15,117
Percent	0.77	5.43		41.48	2.71		5.04		55.43
Sample Size	4	28		214	14		26		286
Mean Length	570	505		556	496		555		548
Std. Error	19	6		2	9		5		1
Both Sexes	211	2,801		20,880	1,004		2,325	53	27,274
Percent	0.77	10.27		76.56	3.68		8.52	0.19	100
Sample Size	4	53		395	19		44	1	516
Mean Length	570	512		565	500		560	593	556
Std. Error	19	5		1	8		4		1

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Table 12.—Page 2 of 3.

	Age Group								
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Sample Period 2:	14 July - 27 August								
Males		1,260	50	10,280	2,419	50	2,520	101	16,680
Percent		4.26	0.17	34.75	8.18	0.17	8.52	0.34	56.39
Sample Size		25	1	204	48	1	50	2	331
Mean Length		503	379	570	523	640	566	540	557
Std. Error		8		2	3		3	31	1
Females	101	1,209		7,105	1,764		2,721		12,900
Percent	0.34	4.09		24.02	5.96		9.2		43.61
Sample Size	2	24		141	35		54		256
Mean Length	547	496		548	497		547		536
Std. Error	6	5		2	3		4		1
Both Sexes	101	2,469	50	17,385	4,183	50	5,241	101	29,580
Percent	0.34	8.35	0.17	58.77	14.14	0.17	17.72	0.34	100
Sample Size	2	49	1	345	83	1	104	2	587
Mean Length	547	500	379	561	512	640	556	540	548
Std. Error	6	5		1	2		2	31	1

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	Age Group								
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
All Periods Combined:									
Males		2,581	50	19,848	2,683	50	3,471	154	28,837
Percent		4.54	0.09	34.91	4.72	0.09	6.11	0.27	50.72
Sample Size		50	1	385	53	1	68	3	561
Mean Length		511	379	572	522	640	566	558	561
Std. Error		6		1	3		3	31	1
Females	312	2,689		18,417	2,504		4,095		28,017
Percent	0.55	4.73		32.39	4.4		7.2		49.28
Sample Size	6	52		355	49		80		542
Mean Length	562	501		553	497		549		542
Std. Error	13	4		1	4		3		1
Both Sexes	312	5,270	50	38,265	5,187	50	7,566	154	56,854
Percent	0.55	9.27	0.09	67.3	9.12	0.09	13.31	0.27	100
Sample Size	6	102	1	740	102	1	148	3	1,103
Mean Length	562	506	379	563	510	640	557	558	552
Std. Error	13	3		1	2		2	31	1

^a Mean length in mm.

Table 13.—Age, sex, and length composition of sockeye salmon in Kalgin Island Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group									
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 1:	1 June - 9 July									
Males	60	1,629	8,506	965	121	1,931	60			13,272
Percent	0.23	6.18	32.26	3.66	0.46	7.32	0.23			50.34
Sample Size	1	27	141	16	2	32	1			220
Mean Length ^a	639	525	568	501	622	561	511			557
Std. Error		7	3	10	4	7				3
Females	60	2,293	7,301	1,508		1,870		60		13,092
Percent	0.23	8.7	27.69	5.72		7.09		0.23		49.66
Sample Size	1	38	121	25		31		1		217
Mean Length	558	510	561	490		544		567		542
Std. Error		5	3	7		6				2
Both Sexes	120	3,922	15,807	2,473	121	3,801	60		60	26,364
Percent	0.46	14.88	59.96	9.38	0.46	14.42	0.23		0.23	100
Sample Size	2	65	262	41	2	63	1		1	437
Mean Length	599	516	565	495	622	553	511		567	550
Std. Error		4	2	6	4	5				2

-continued-

Table 13.—Page 2 of 4.

	Age Group									
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 2:	12 - 26 July									
Males	35	459	3,958	1,272	318	1,272		35		7,349
Percent	0.23	3.08	26.55	8.53	2.13	8.53		0.23		49.29
Sample Size	1	13	112	36	9	36		1		208
Mean Length	527	490	583	487	630	558		646		558
Std. Error		14	4	5	8	6				3
Females		671	4,311	1,378	106	1,095				7,561
Percent		4.5	28.91	9.24	0.71	7.34				50.71
Sample Size		19	122	39	3	31				214
Mean Length		503	572	501	620	560				552
Std. Error		6	2	5	18	5				2
Both Sexes	35	1,130	8,269	2,650	424	2,367		35		14,910
Percent	0.23	7.58	55.46	17.77	2.84	15.88		0.23		100
Sample Size	1	32	234	75	12	67		1		422
Mean Length	527	497	577	494	627	559		646		555
Std. Error		7	2	4	8	4				2

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Table 13.—Page 3 of 4.

	Age Group									
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 3:	29 July - 18 August									
Males	301	5,897	3,129		1,504		60		10,891	
Percent	1.38	27	14.32		6.89		0.27		49.86	
Sample Size	5	98	52		25		1		181	
Mean Length	489	578	487		562		603		547	
Std. Error	22	3	5		4				2	
Females	60	361	4,333	3,851	2,287		60		10,952	
Percent	0.27	1.65	19.84	17.63	10.47		0.27		50.14	
Sample Size	1	6	72	64	38		1		182	
Mean Length	523	509	561	493	547		585		532	
Std. Error	13	3	3		3				2	
Both Sexes	60	662	10,230	6,980	3,791		120		21,843	
Percent	0.27	3.03	46.83	31.96	17.36		0.55		100	
Sample Size	1	11	170	116	63		2		363	
Mean Length	523	500	571	490	553		594		540	
Std. Error	12	2	3		3				1	

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	Age Group									
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
All Period Combined:										
Males	95	2,389	18,361	5,366	439	4,707	60	95		31,512
Percent	0.15	3.79	29.09	8.5	0.7	7.46	0.1	0.15		49.93
Sample Size	2	45	351	104	11	93	1	2		609
Mean Length	598	514	575	489	628	561	511	619		554
Std. Error		6	2	3	6	4				1
Females	120	3,325	15,945	6,737	106	5,252	60	60		31,605
Percent	0.19	5.27	25.26	10.67	0.17	8.32	0.1	0.1		50.07
Sample Size	2	63	315	128	3	100	1	1		613
Mean Length	541	508	564	494	620	549	585	567		541
Std. Error		4	2	3	18	3				1
Both Sexes	215	5,714	34,306	12,103	545	9,959	60	155	60	63,117
Percent	0.34	9.05	54.35	19.18	0.86	15.78	0.1	0.25	0.1	100
Sample Size	4	108	666	232	14	193	1	3	1	1,222
Mean Length	566	510	570	492	626	554	511	606	567	547
Std. Error		3	1	2	6	2				1

^a Mean length in mm.

Table 14.—Age, sex, and length composition of sockeye salmon in the Offshore Test fishery, Upper Cook Inlet, Alaska, 2007.

	Age Group							
	0.3	1.2	1.3	2.2	1.4	2.3	2.4	Total
Sample Period:	1 July - 2 August							
Males	22	202	1,876	130	84	189	2	2,505
Percent	0.55	5	46.48	3.22	2.08	4.68	0.05	62.07
Sample Size	10	92	853	59	38	86	1	1,139
Mean Length ^a	572	513	591	524	626	572	630	581
Std. Error	10	3	1	5	3	4		1
Females	7	112	1,208	59	20	125		1,531
Percent	0.17	2.78	29.93	1.46	0.5	3.1		37.93
Sample Size	3	51	549	27	9	57		696
Mean Length	563	517	573	528	590	556		566
Std. Error	12	5	1	6	7	3		1
Both Sexes	29	314	3,084	189	104	314	2	4,036
Percent	0.72	7.78	76.41	4.68	2.58	7.78	0.05	100
Sample Size	13	143	1,402	86	47	143	1	1,835
Mean Length	570	514	584	525	619	566	630	575
Std. Error	8	3	1	4	3	2		1

^a Mean length in mm.

Table 15.—Age, sex, and length composition of sockeye salmon in Kenai River, Upper Cook Inlet, Alaska, 2007.

	Age Group										
	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period:	1 July - 23 August										
Males	1,143	24,004	2,286	357,774	12,574	11,430	29,719		2,286		441,216
Percent	0.13	2.77	0.26	41.24	1.45	1.32	3.43		0.26		50.86
Sample Size	1	21	2	313	11	10	26		2		386
Mean Length ^a	602	512	391	594	517	628	587		599		586
Std. Error		10	4	2	16	5	5		13		2
Females		27,433	3,429	325,768	25,147	1,143	37,721	1,143	3,429	1,143	426,356
Percent		3.16	0.4	37.55	2.9	0.13	4.35	0.13	0.4	0.13	49.14
Sample Size		24	3	285	22	1	33	1	3	1	373
Mean Length		499	356	567	520	521	568	503	590	540	558
Std. Error		6	10	2	8		5		7		1
Both Sexes	1,143	51,437	5,715	683,542	37,721	12,573	67,440	1,143	5,715	1,143	867,572
Percent	0.13	5.93	0.66	78.79	4.35	1.45	7.77	0.13	0.66	0.13	100
Sample Size	1	45	5	598	33	11	59	1	5	1	759
Mean Length	602	505	370	581	519	618	576	503	594	540	572
Std. Error		6	6	1	8	5	3		7		1

^a Mean length in mm.

Table 16.—Age, sex, and length composition of sockeye salmon escapement in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group				
	1.2	1.3	2.2	2.3	Total
Sample period:	16 July - 12 September				
Males	4,468	2,432	517	243	7,660
Percent	26.73	14.55	3.09	1.45	45.82
Sample Size	147	80	17	8	252
Mean Length ^a	563	570	536	569	564
Std. Error	32	3	7	7	18
Females	6,139	1,429	1,368	122	9,058
Percent	36.72	8.55	8.18	0.73	54.18
Sample Size	202	47	45	4	298
Mean Length	519	548	514	549	523
Std. Error	2	5	4	12	2
Both Sexes	10,607	3,861	1,885	365	16,718
Percent	63.45	23.09	11.28	2.18	100
Sample Size	349	127	62	12	550
Mean Length	537	562	520	562	542
Std. Error	13	3	3	6	8

^a Mean length in mm.

Table 17.—Age, sex, and length composition of late-run sockeye salmon escapement in Russian River, Kenai River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group						
	1.2	2.1	1.3	2.2	2.3	3.2	Total
Sample period:	15 July - 13 September						
Males	680	4,082	1,021	11,226	7,144	340	24,493
Percent	1.28	7.69	1.92	21.15	13.46	0.64	46.15
Sample Size	2	12	3	33	21	1	72
Mean Length ^a	525	386	582	506	575	535	510
Std. Error	5	8	14	6	5		3
Females	3,062		1,361	19,730	4,082	340	28,575
Percent	5.77		2.56	37.18	7.69	0.64	53.85
Sample Size	9		4	58	12	1	84
Mean Length	507		565	513	561	515	522
Std. Error	4		17	3	7		2
Both Sexes	3,742	4,082	2,382	30,956	11,226	680	53,068
Percent	7.05	7.69	4.49	58.33	21.15	1.28	100
Sample Size	11	12	7	91	33	2	156
Mean Length	510	386	572	510	570	525	516
Std. Error	3	8	12	3	4		2

^a Mean length in mm. Lengths take to nearest 5 mm.

Table 18.—Age, sex, and length composition of sockeye salmon escapement in Kaslof River, Upper Cook Inlet, Alaska, 2007.

	Age Group						
	1.1	1.2	2.1	1.3	2.2	2.3	Total
Sample Period:	28 June - 13 August						
Males	536	68,124	536	41,304	28,430	19,311	158,241
Percent	0.16	20.22	0.16	12.26	8.44	5.73	46.97
Sample Size	1	127	1	77	53	36	295
Mean Length ^a	333	468	332	545	465	526	494
Std. Error		2		3	3	5	2
Females	1,609	82,607		43,986	36,476	13,947	178,625
Percent	0.48	24.52		13.06	10.83	4.14	53.03
Sample Size	3	154		82	68	26	333
Mean Length	368	464		538	462	517	485
Std. Error	32	2		3	2	5	1
Both Sexes	2,145	150,731	536	85,290	64,906	33,258	336,866
Percent	0.64	44.75	0.16	25.32	19.27	9.87	100
Sample Size	4	281	1	159	121	62	628
Mean Length	359	466	332	542	463	522	489
Std. Error	32	1		2	2	3	1

^a Mean length in mm.

Table 19.—Age, sex, and length of sockeye salmon escapement in Crescent River, Upper Cook Inlet, Alaska, 2007.

	Age Group							
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Period:	24 June - 7 August							
Males	867	5,201	1,040	20,458	2,081	173	7,629	37,449
Percent	1.09	6.55	1.31	25.76	2.62	0.22	9.61	47.16
Sample Size	5	30	6	118	12	1	44	216
Mean Length ^a	330	464	324	575	444	594	561	537
Std. Error	11	6	4	2	9		3	2
Females		1,387		30,687	694		9,189	41,957
Percent		1.75		38.65	0.87		11.57	52.84
Sample Size		8		177	4		53	242
Mean Length		476		546	489		549	543
Std. Error		13		2	9		3	1
Both Sexes	867	6,588	1,040	51,145	2,775	173	16,818	79,406
Percent	1.09	8.3	1.31	64.41	3.49	0.22	21.18	100
Sample Size	5	38	6	295	16	1	97	458
Mean Length	330	467	324	557	455	594	554	540
Std. Error	11	6	4	1	7		2	1

^a Mean length in mm.

Table 20.—Age, sex, and length composition of sockeye salmon escapement in Yentna River, (RM 4.0), Susitna river drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group									Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	2.3	3.2	
Sample peri	7 July - 16 August									
Males	873	218	655	9,387	437	23,797	1,746	2,620	218	39,951
Percent	1.09	0.27	0.82	11.75	0.55	29.78	2.19	3.28	0.27	50
Sample Size	4	1	3	43	2	109	8	12	1	183
Mean Length ^a	433	353	575	455	369	575	471	568	448	534
Std. Error	9		12	5	6	3	17	8		2
Females	655		2,183	5,676		24,887	3,275	3,275		39,951
Percent	0.82		2.73	7.1		31.15	4.1	4.1		50
Sample Size	3		10	26		114	15	15		183
Mean Length	428		556	483		552	493	544		535
Std. Error	13		7	6		2	9	7		2
Both Sexes	1,528	218	2,838	15,063	437	48,684	5,021	5,895	218	79,902
Percent	1.91	0.27	3.55	18.85	0.55	60.93	6.28	7.38	0.27	100
Sample Size	7	1	13	69	2	223	23	27	1	366
Mean Length	431	353	560	466	369	563	486	555	448	535
Std. Error	8		6	4	6	2	9	5		2

^a Mean length in mm.

Table 21.—Age, sex, and length composition of sockeye salmon escapement in Susitna River, (Sunshine Station), Upper Cook Inlet, Alaska, 2007.

	Age Group									
	0.2	1.1	0.3	1.2	1.3	2.2	1.4	2.3	2.4	Total
Sample period:	10 July - 18 August									
Males	107	107	1,390	8,660	24,053	1,497	107	4,063	107	40,091
Percent	0.14	0.14	1.83	11.41	31.69	1.97	0.14	5.35	0.14	52.82
Sample Size	1	1	13	81	225	14	1	38	1	375
Mean Length ^a	435	365	573	478	570	515	645	570	605	548
Std. Error			7	5	2	13		3		2
Females			1,176	8,018	21,489	2,459		2,673		35,815
Percent			1.55	10.56	28.31	3.24		3.52		47.18
Sample Size			11	75	201	23		25		335
Mean Length			546	481	543	493		548		526
Std. Error			5	3	2	9		3		1
Both Sexes	107	107	2,566	16,678	45,542	3,956	107	6,736	107	75,906
Percent	0.14	0.14	3.38	21.97	60.00	5.21	0.14	8.87	0.14	100.00
Sample Size	1	1	24	156	426	37	1	63	1	710
Mean Length	435	365	560	479	558	501	645	562	605	538
Std. Error			4	3	1	7		2		1

^a Mean length in mm.

Table 22.—Age, sex, and length composition of sockeye salmon escapement in Fish Creek, Northern District, Upper Cook Inlet, Alaska, 2007.

	Age Group						
	1.1	1.2	2.1	1.3	2.2	2.3	Total
Sample period:	11 July - 15 August						
Males	960	6,324	169	4,460	847	113	12,873
Percent	3.43	22.63	0.6	15.96	3.03	0.4	46.06
Sample Size	17	112	3	79	15	2	228
Mean Length ^a	356	477	363	533	467	548	486
Std. Error	6	3	13	3	11	23	2
Females		9,034		5,081	678	282	15,075
Percent		32.32		18.18	2.43	1.01	53.94
Sample Size		160		90	12	5	267
Mean Length		472		512	475	502	486
Std. Error		2		2	5	5	1
Both Sexes	960	15,358	169	9,541	1,525	395	27,948
Percent	3.43	54.95	0.6	34.14	5.46	1.41	100
Sample Size	17	272	3	169	27	7	495
Mean Length	356	474	363	522	470	515	486
Std. Error	6	2	13	2	7	7	1

^a Mean length in mm.

Table 23.—Age, sex, and length composition of sockeye salmon into Shell Lake, Susitna River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group				
	1.2	1.3	2.2	2.3	Total
Sample period:	5 August - 8 September				
Males	236	10,556		1,418	12,210
Percent	0.88	39.41		5.29	45.59
Sample Size	3	134		18	155
Mean Length ^a	457	550		551	548
Std. Error	18	2		6	2
Females	630	12,920	79	945	14,574
Percent	2.35	48.24	0.29	3.53	54.41
Sample Size	8	164	1	12	185
Mean Length	471	527	443	518	523
Std. Error	8	1		7	1
Both Sexes	866	23,476	79	2,363	26,784
Percent	3.23	87.65	0.29	8.82	100
Sample Size	11	298	1	30	340
Mean Length	467	537	443	538	535
Std. Error	8	1		5	1

^a Mean length in mm.

Table 24.—Age, sex, and length composition of sockeye salmon escapement in Judd Lake, Susitna River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group					
	1.2	1.3	2.2	1.4	2.3	Total
Sample period:	25 July - 12 September					
Males	3,671	17,758	2,083	99	3,075	26,686
Percent	6.31	30.55	3.58	0.17	5.29	45.9
Sample Size	37	179	21	1	31	269
Mean Length ^a	475	579	487	630	564	556
Std. Error	4	2	6		5	2
Females	2,183	23,313	2,083	99	3,770	31,448
Percent	3.76	40.1	3.58	0.17	6.49	54.1
Sample Size	22	235	21	1	38	317
Mean Length	485	551	472	589	544	540
Std. Error	5	2	5		5	1
Both Sexes	5,854	41,071	4,166	198	6,845	58,134
Percent	10.07	70.65	7.17	0.34	11.77	100
Sample Size	59	414	42	2	69	586
Mean Length	479	563	480	610	553	548
Std. Error	3	1	4		3	1

^a Mean length in mm.

Table 25.—Age, sex, and length composition of sockeye salmon escapement in Larson Lake, Susitna River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group						
	1.1	1.2	1.3	2.2	1.4	2.3	Total
Sample period:	29 June - 30 August						
Males	2,725		19,408	661	83	3,221	26,098
Percent	5.7		40.59	1.38	0.17	6.74	54.58
Sample Size	33		235	8	1	39	316
Mean Length ^a	498		577	484	635	577	566
Std. Error	7		2	16		3	2
Females	83	3,799	13,957	1,487		2,395	21,721
Percent	0.17	7.94	29.19	3.11		5.01	45.42
Sample Size	1	46	169	18		29	263
Mean Length	325	480	540	481		540	525
Std. Error		3	2	6		5	1
Both Sexes	83	6,524	33,365	2,148	83	5,616	47,819
Percent	0.17	13.64	69.77	4.49	0.17	11.74	100
Sample Size	1	79	404	26	1	68	579
Mean Length	325	488	561	482	635	561	548
Std. Error		3	1	6		3	1

^a Mean length in mm. Length taken to the nearest 5 mm.

Table 26.—Age, sex, and length composition of sockeye salmon escapement in Chelatna Lake (Lake Creek), Susitna River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group					
	0.3	1.2	1.3	1.4	2.3	Total
Sample period:	21 July - 5 August					
Males	419	140	6,429	140		7,128
Percent	3.59	1.2	55.09	1.2		61.07
Sample Size	6	2	92	2		102
Mean Length ^a	586	487	595	655		594
Std. Error	7	14	3	4		3
Females	70	280	4,053	140		4,543
Percent	0.6	2.4	34.73	1.2		38.93
Sample Size	1	4	58	2		65
Mean Length	587	483	561	558		556
Std. Error		28	4	12		4
Both Sexes	489	420	10,482	140	140	11,671
Percent	4.19	3.6	89.81	1.2	1.2	100
Sample Size	7	6	150	2	2	167
Mean Length	586	484	582	655	558	579
Std. Error	7	20	2	4	12	2

^a Mean length in mm.

Table 27.—Age, sex, and length composition of sockeye salmon escapement in Swan Lake, Susitna River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group						
	1.1	1.2	2.1	1.3	2.2	2.3	Total
Sample period:	7 August - 10 September						
Males	27	505	13	2,991	40	66	3,642
Percent	0.49	9.2	0.24	54.49	0.73	1.2	66.35
Sample Size	2	38	1	225	3	5	274
Mean Length ^a	337	474	328	566	469	586	550
Std. Error	12	8		2	28	9	2
Females		239		1,555	53		1,847
Percent		4.35		28.33	0.97		33.65
Sample Size		18		117	4		139
Mean Length		484		543	487		533
Std. Error		6		2	11		2
Both Sexes	27	744	13	4,546	93	66	5,489
Percent	0.49	13.55	0.24	82.82	1.69	1.2	100
Sample Size	2	56	1	342	7	5	413
Mean Length	337	477	328	558	479	586	544
Std. Error	12	6		1	14	9	1

^a Mean length in mm.

Table 28.—Age, sex, and length composition of sockeye salmon in Byers Lake, Susitna River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group					
	0.3	1.2	1.3	2.2	2.3	Total
Sample period:	10 - 30 August					
Males	13	80	825	13	13	944
Percent	0.76	4.7	48.5	0.76	0.76	55.5
Sample Size	1	6	62	1	1	71
Mean Length ^a	550	495	592	510	610	582
Std. Error		19	4			4
Females	27	40	623	27	40	757
Percent	1.59	2.35	36.63	1.59	2.35	44.5
Sample Size	2	3	47	2	3	57
Mean Length	570	507	557	480	530	550
Std. Error	10	13	4	20	29	3
Both Sexes	40	120	1,448	40	53	1,701
Percent	2.35	7.05	85.13	2.35	3.12	100
Sample Size	3	9	109	3	4	128
Mean Length	564	499	577	490	550	568
Std. Error	10	13	3	20	29	3

^a Mean length in mm. Lengths taken in mm from 8/13 to 8/17 to nearest 5 mm from 8/22 to 8/27.

Table 29.—Age, sex, and length composition of sockeye salmon escapement in Stephan Lake, Susitna River drainage, Upper Cook Inlet, Alaska, 2007.

	Age Group				
	1.2	1.3	2.2	2.3	Total
Sample period:	8 July - 9 September				
Males	395	1,350	205	284	2,234
Percent	9.59	32.77	4.98	6.89	54.22
Sample Size	50	171	26	36	283
Mean Length ^a	490	549	496	550	534
Std. Error	4	2	5	4	1
Females	442	1,010	197	237	1,886
Percent	10.73	24.51	4.78	5.75	45.78
Sample Size	56	128	25	30	239
Mean Length	474	525	481	524	508
Std. Error	4	2	5	4	2
Both Sexes	837	2,360	402	521	4,120
Percent	20.32	57.28	9.76	12.65	100
Sample Size	106	299	51	66	522
Mean Length	481	539	489	538	522
Std. Error	3	1	3	3	1

^a Mean length in mm. Lengths taken to the nearest 5 mm from 7/28 to 7/30, and 8/20 to 9/5, taken to the nearest 10 mm from 7/31 to 8/19.

Table 30.—Age, sex, and length composition of sockeye salmon escapement in Packers Lake, Kalgan Island, Upper Cook Inlet, Alaska, 2007.

	Age Group							
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	Total
Sample period:	3 July - 6 September							
Males	76	684	760	1,215	15,419	2,886	152	21,192
Percent	0.16	1.47	1.63	2.61	33.06	6.19	0.33	45.44
Sample Size	1	9	10	16	203	38	2	279
Mean Length ^a	342	464	334	526	449	549	446	463
Std. Error		9	3	9	2	4	12	2
Females		987	76	1,367	18,686	4,329		25,445
Percent		2.12	0.16	2.93	40.07	9.28		54.56
Sample Size		13	1	18	246	57		335
Mean Length		465	315	522	468	532		481
Std. Error		11		5	2	3		2
Both Sexes	76	1,671	836	2,582	34,105	7,215	152	46,637
Percent	0.16	3.58	1.79	5.54	73.13	15.47	0.33	100
Sample Size	1	22	11	34	449	95	2	614
Mean Length	342	465	332	524	460	539	446	473
Std. Error		7	3	5	1	2	12	1

^a Mean length in mm.

Table 31.—Age, sex, and length composition of Chinook salmon in the Upper Subdistrict set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group							
	1.1	1.2	1.3	2.2	1.4	1.5	2.4	Total
Sample period:	25 June - 10 August							
Males	530	4,827	1,947	16	1,744	62		9,126
Percent	4.31	39.28	15.84	0.13	14.19	0.5		74.27
Sample Size	34	310	125	1	112	4		586
Mean Length ^a	428	597	788	645	962	1,046		701
Std. Error	6	4	6		6	34		3
Females	62	421	810		1,760	93	16	3,162
Percent	0.5	3.43	6.59		14.32	0.76	0.13	25.73
Sample Size	4	27	52		113	6	1	203
Mean Length	451	629	831		947	1,045	940	868
Std. Error	40	12	8		5	18		4
Both Sexes	592	5,248	2,757	16	3,504	155	16	12,288
Percent	4.82	42.71	22.44	0.13	28.52	1.26	0.13	100
Sample Size	38	337	177	1	225	10	1	789
Mean Length	430	600	800	645	954	1,046	940	744
Std. Error	6	4	5		4	18		2

^a Mean length in mm.

Table 32.—Age, sex, length and percent female composition of coho salmon in selected commercial gillnet harvests, Upper Cook Inlet, Alaska, 2007.

	Age Group			
	1.1	2.1	3.1	Total
COMMERCIAL CATCH				
Central Drift				
Number	12,942	85,574	9,773	108,289
Percent	11.95	79.02	9.02	100
Sample Size	49	324	37	410
Mean Length ^a	538	555	575	555
% Female	39	41	35	40
Upper Subdistrict				
Number	2,313	18,509	2,756	23,578
Percent	9.81	78.5	11.69	100
Sample Size	47	376	56	479
Mean Length	516	551	581	551
% Female	32	41	41	40
Commercial Harvest Total				
Number	15,255	104,083	12,529	131,867
Percent	11.57	78.93	9.5	100
Sample Size	96	700	93	889
Mean Length	535	554	576	554
% Female	38	41	36	40

^a Mean length in mm.

Table 33.—Age, sex, and length composition of coho salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group			
	1.1	2.1	3.1	Total
Sample period:	21 June - 10 September			
Males	7,924	50,182	6,339	64,445
Percent	7.32	46.34	5.85	59.51
Sample Size	30	190	24	244
Mean Length ^a	546	558	584	559
Std. Error	9	3	7	2
Females	5,018	35,392	3,434	43,844
Percent	4.63	32.68	3.17	40.49
Sample Size	19	134	13	166
Mean Length	526	550	557	548
Std. Error	9	3	8	3
Both Sexes	12,942	85,574	9,773	108,289
Percent	11.95	79.02	9.02	100
Sample Size	49	324	37	410
Mean Length	538	555	575	555
Std. Error	6	2	5	2

^a Mean length in mm.

Table 34.—Age, sex, and length composition of coho salmon in the Upper Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group			
	1.1	2.1	3.1	Total
Sample period:	25 June - 10 August			
Males	1,575	10,928	1,624	14,127
Percent	6.68	46.35	6.89	59.92
Sample Size	32	222	33	287
Mean Length ^a	514	554	584	553
Std. Error	8	3	7	3
Females	738	7,581	1,132	9,451
Percent	3.13	32.15	4.8	40.08
Sample Size	15	154	23	192
Mean Length	519	547	578	548
Std. Error	13	4	7	3
Both Sexes	2,313	18,509	2,756	23,578
Percent	9.81	78.5	11.69	100
Sample Size	47	376	56	479
Mean Length	516	551	581	551
Std. Error	7	2	5	2

^a Mean length in mm.

Table 35.—Age, sex, and length composition of chum salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, 2007.

	Age Group				
	0.2	0.3	0.4	0.5	Total
Sample period:	21 June - 3 September				
Males	704	26,156	8,211	469	35,540
Percent	0.94	34.95	10.97	0.63	47.49
Sample Size	6	223	70	4	303
Mean Length ^a	566	592	607	630	595
Std. Error	11	2	3	10	2
Females	117	30,028	9,032	117	39,294
Percent	0.16	40.13	12.07	0.16	52.51
Sample Size	1	256	77	1	335
Mean Length	580	588	601	690	592
Std. Error		2	4		2
Both Sexes	821	56,184	17,243	586	74,834
Percent	1.1	75.08	23.04	0.78	100
Sample Size	7	479	147	5	638
Mean Length	568	590	604	642	593
Std. Error	11	1	3	10	1

^a Mean length in mm.

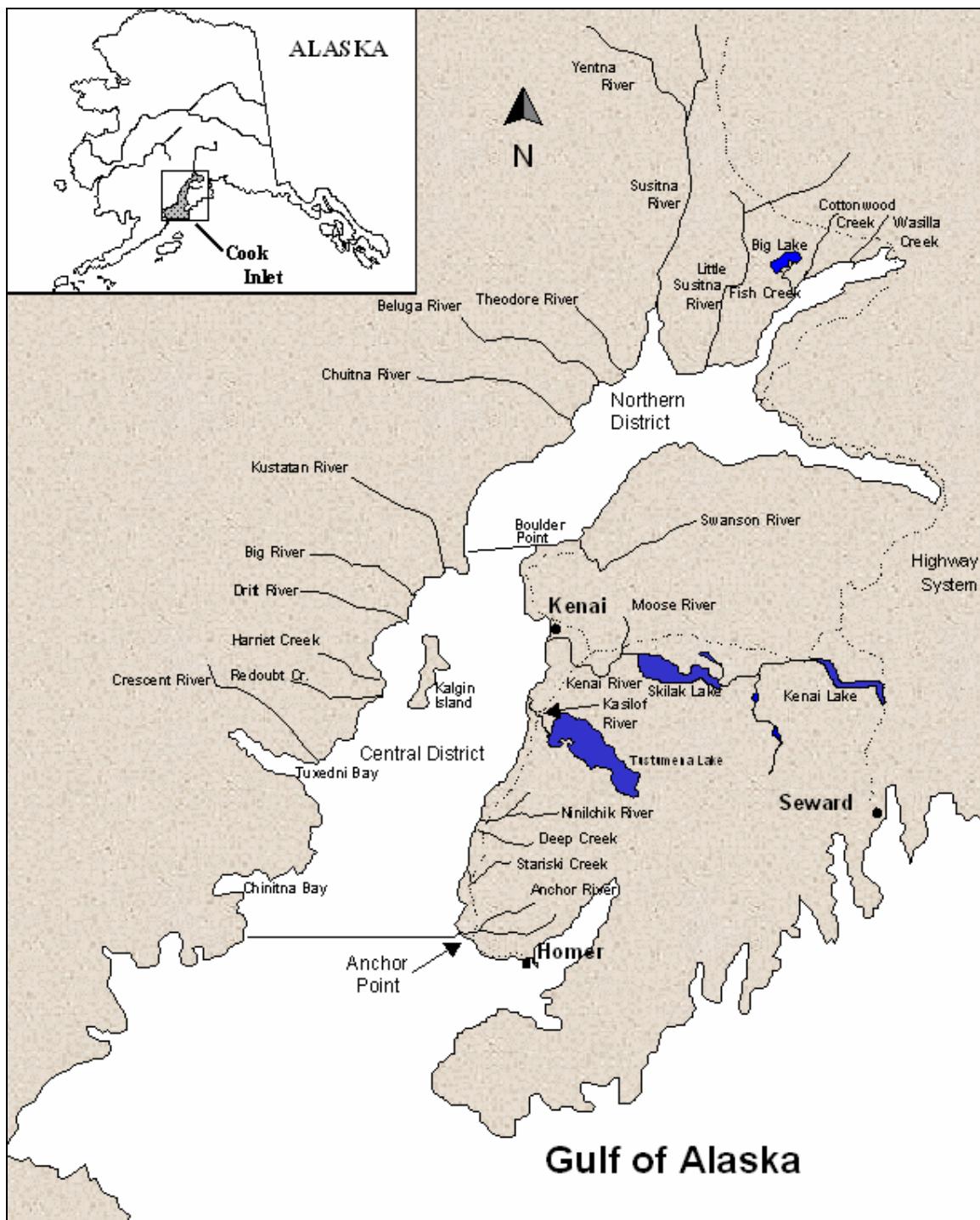


Figure 1.—Upper Cook Inlet showing locations of the Northern and Central Districts and the primary salmon spawning drainages.

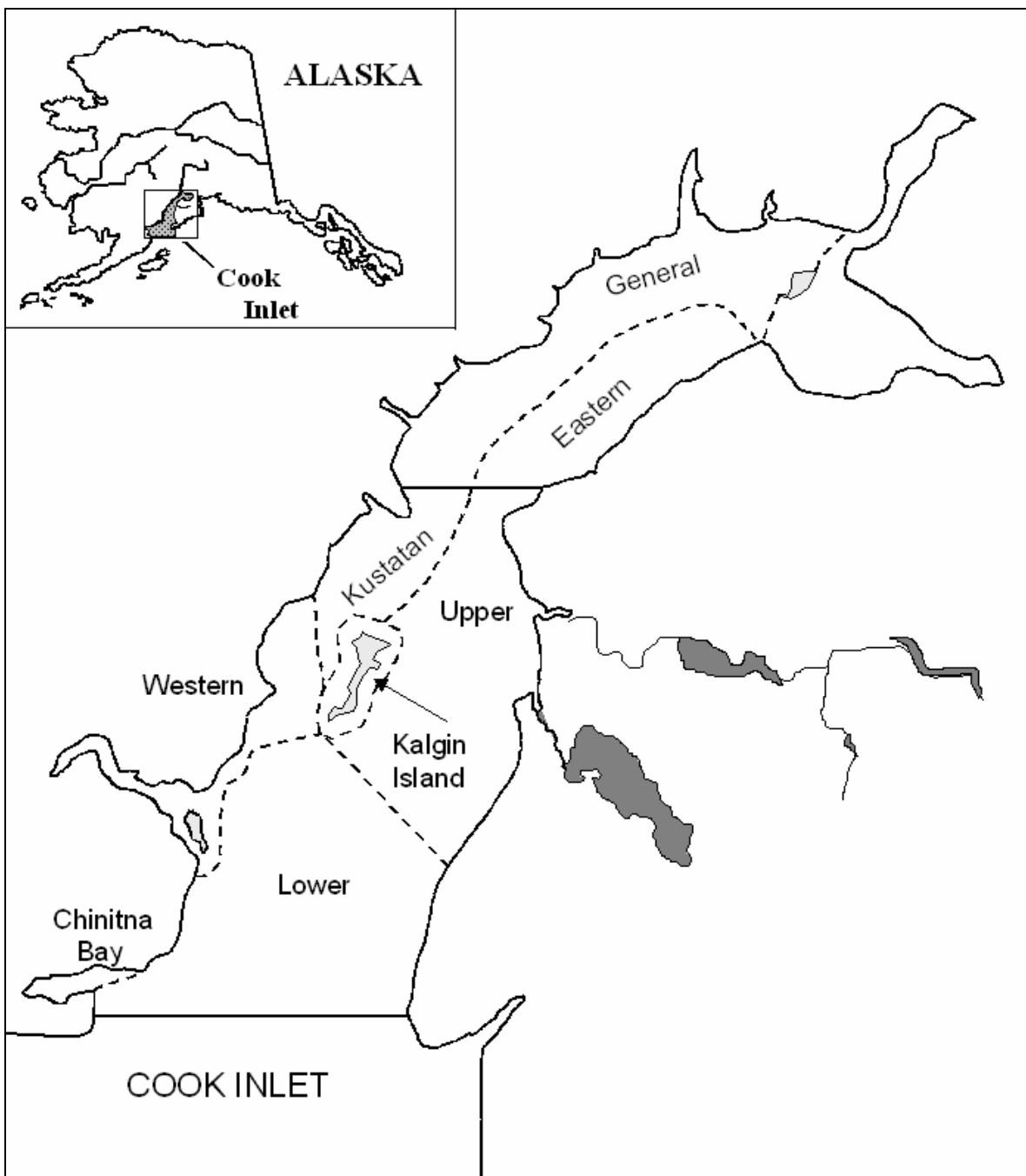


Figure 2.—Upper Cook Inlet commercial fisheries subdistrict fishing boundaries.

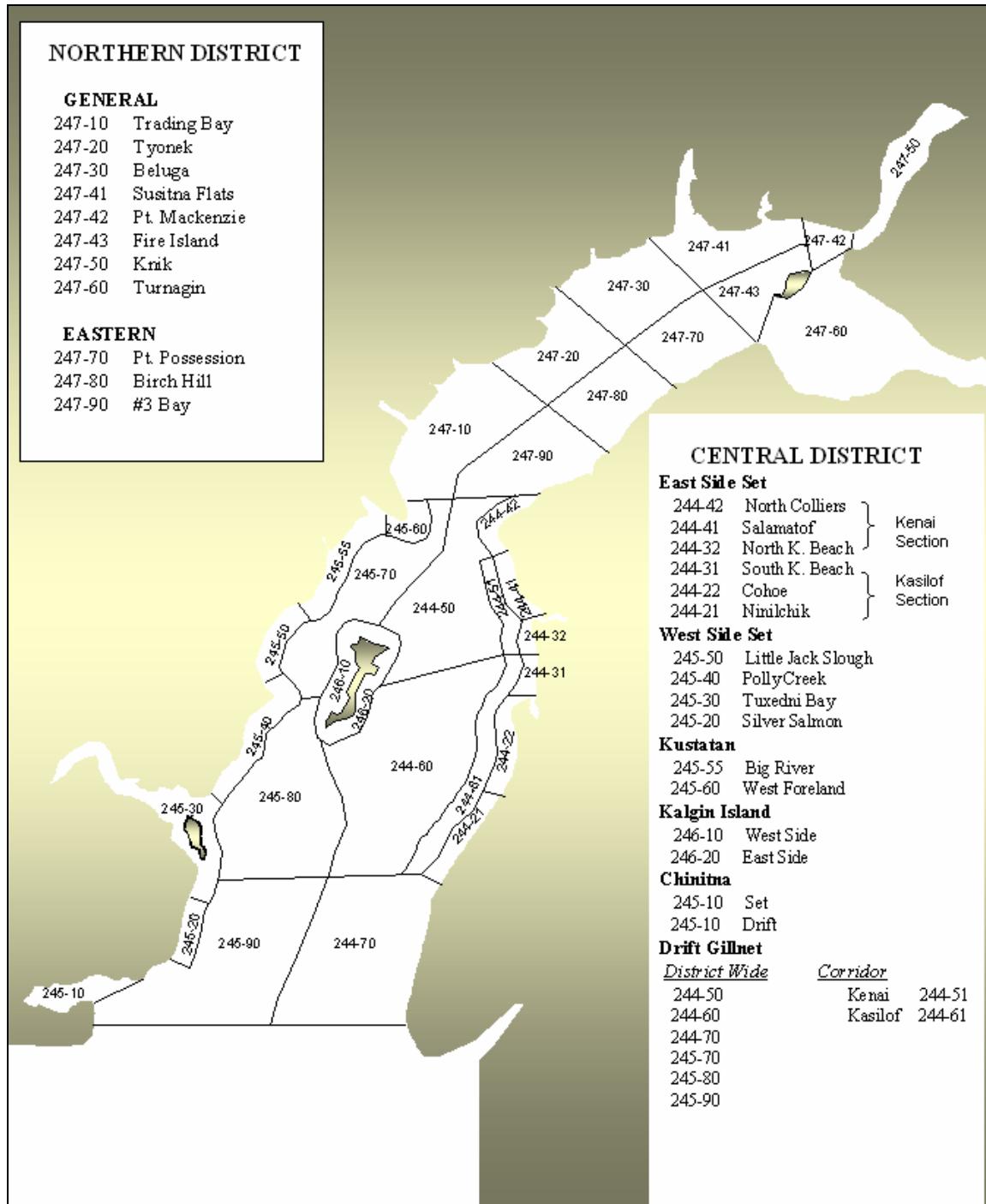


Figure 3.—Upper Cook Inlet showing the commercial fishing statistical areas.

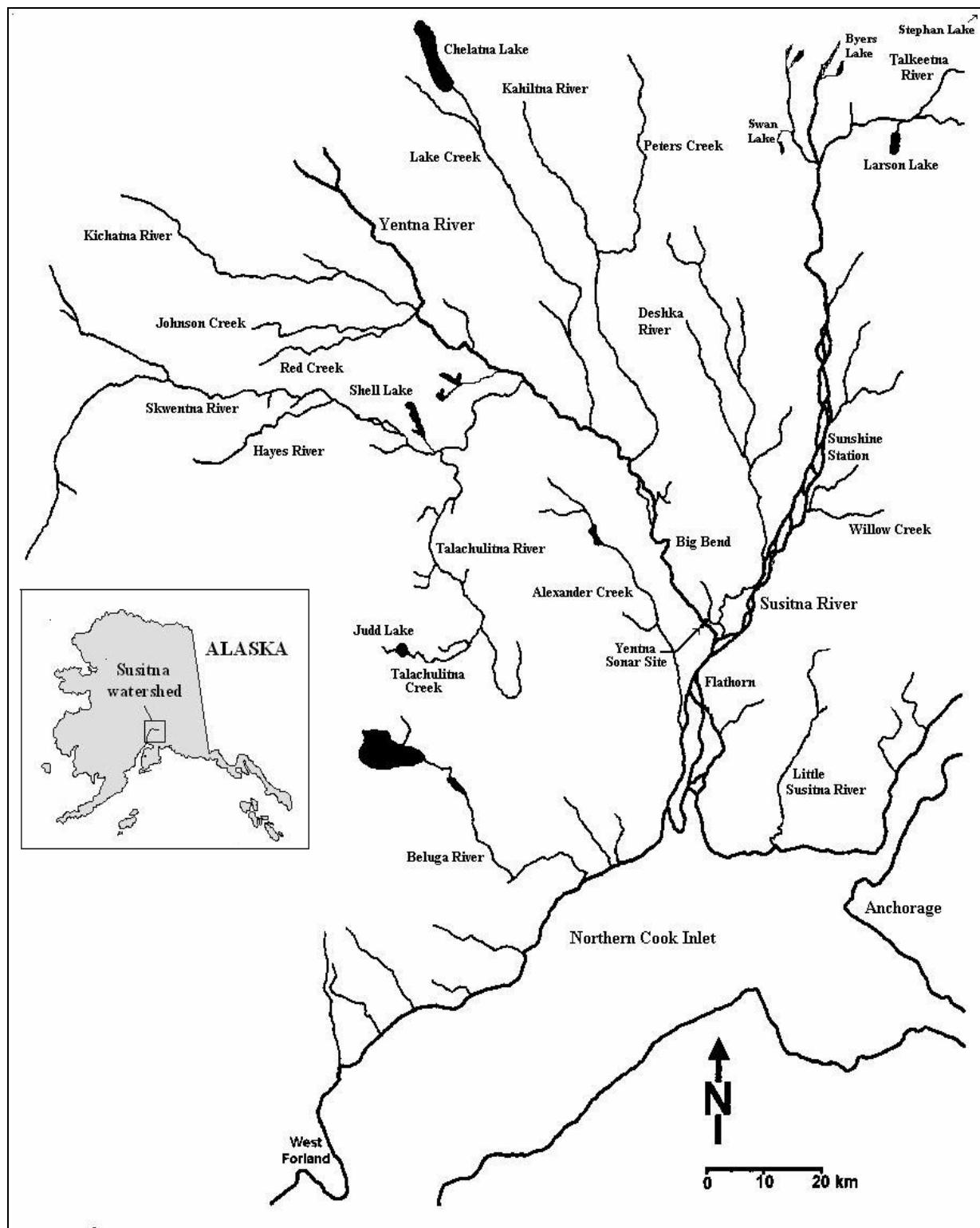
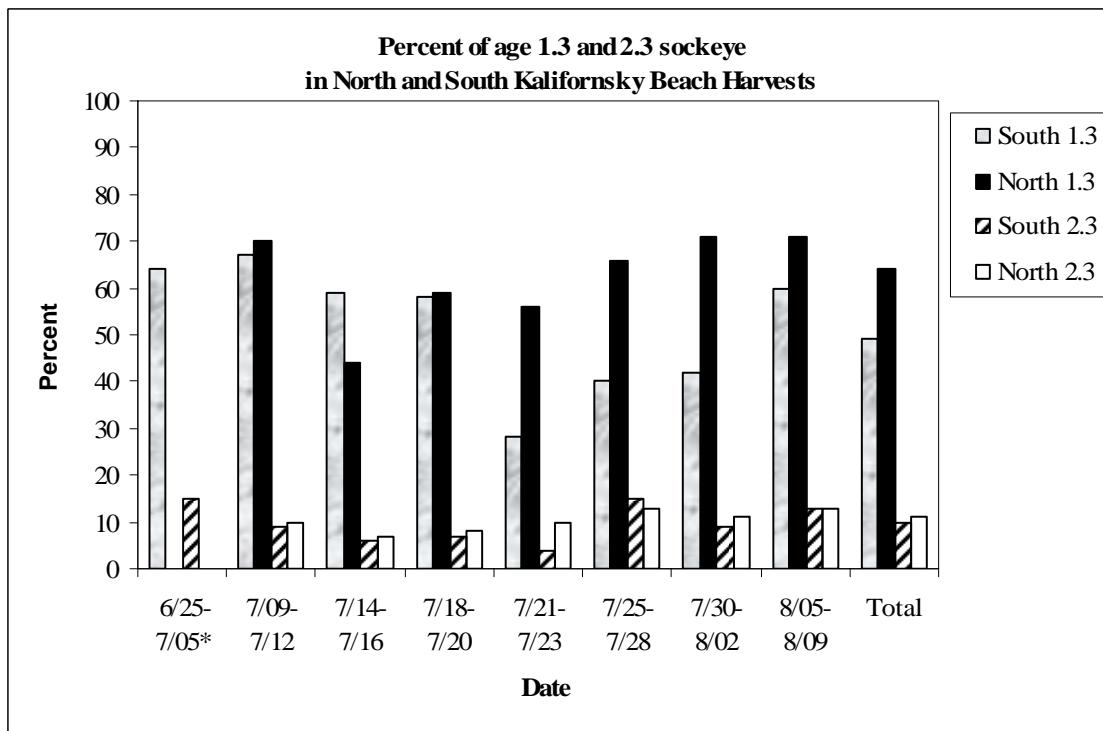
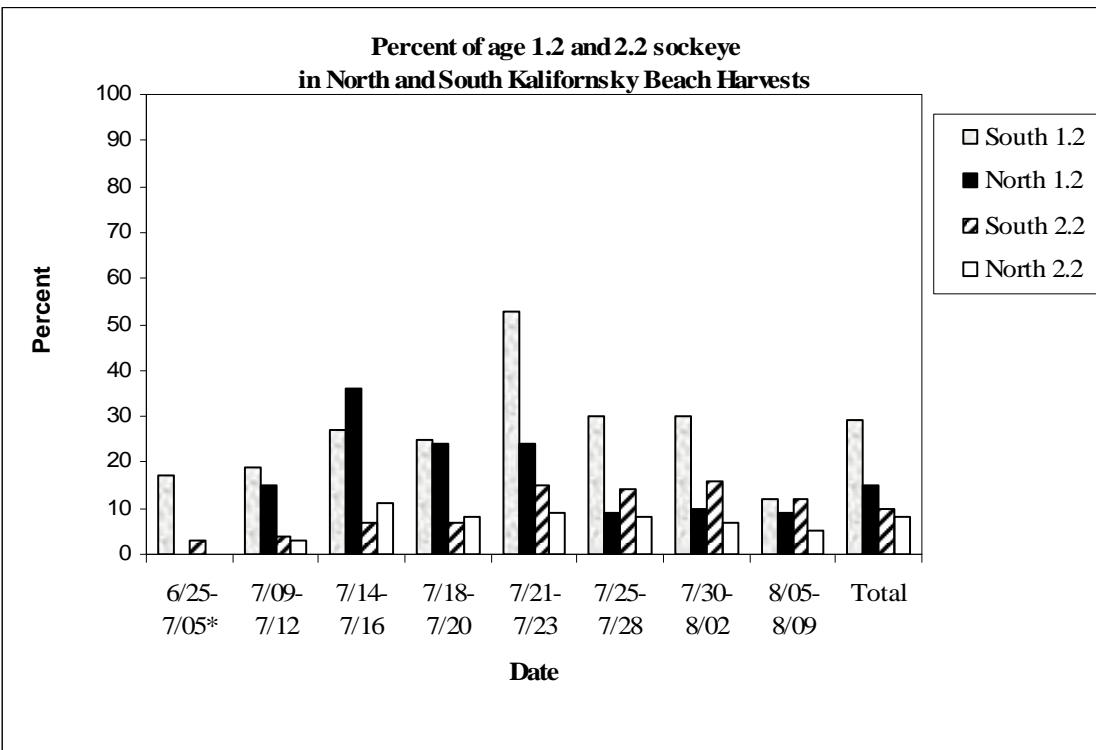


Figure 4.—Susitna River drainage indicating the Yentna River, and Chelatna, Judd, Larson, Shell, Swan, Byers, and Stephan lakes.



*North Kalifornsky Beach set gillnetting season opened 7/09, so no samples were taken from 6/26 to 7/05.

Figure 5.—A comparison of age composition of North and South Kalifornsky Beach set gillnet harvests of sockeye salmon, Upper Cook Inlet, Alaska, 2007.

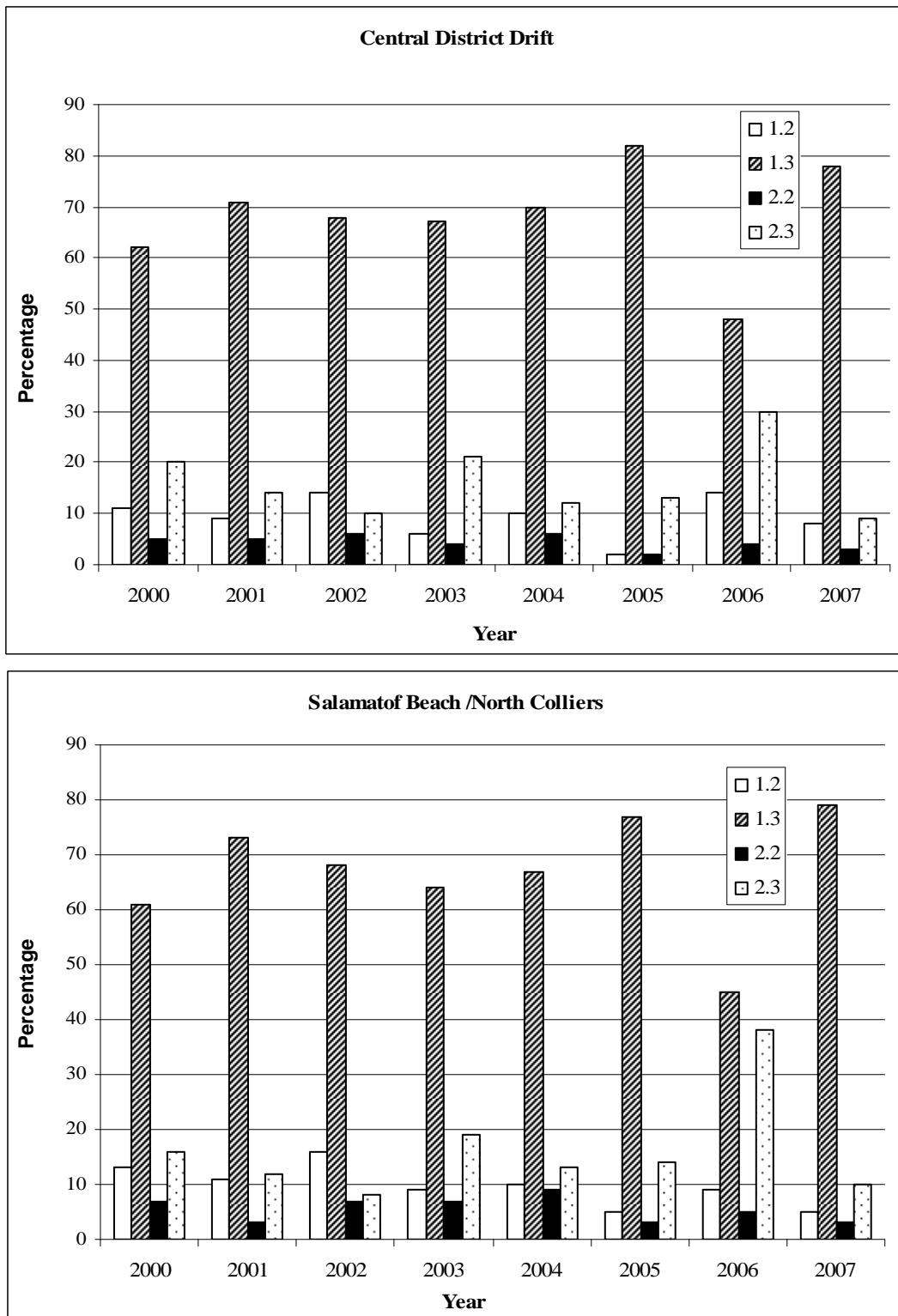


Figure 6.—Age composition in the Central District drift gillnet and Salamatof/North Colliers, set gillnet harvests, Upper Cook Inlet, Alaska, 2000–2007.

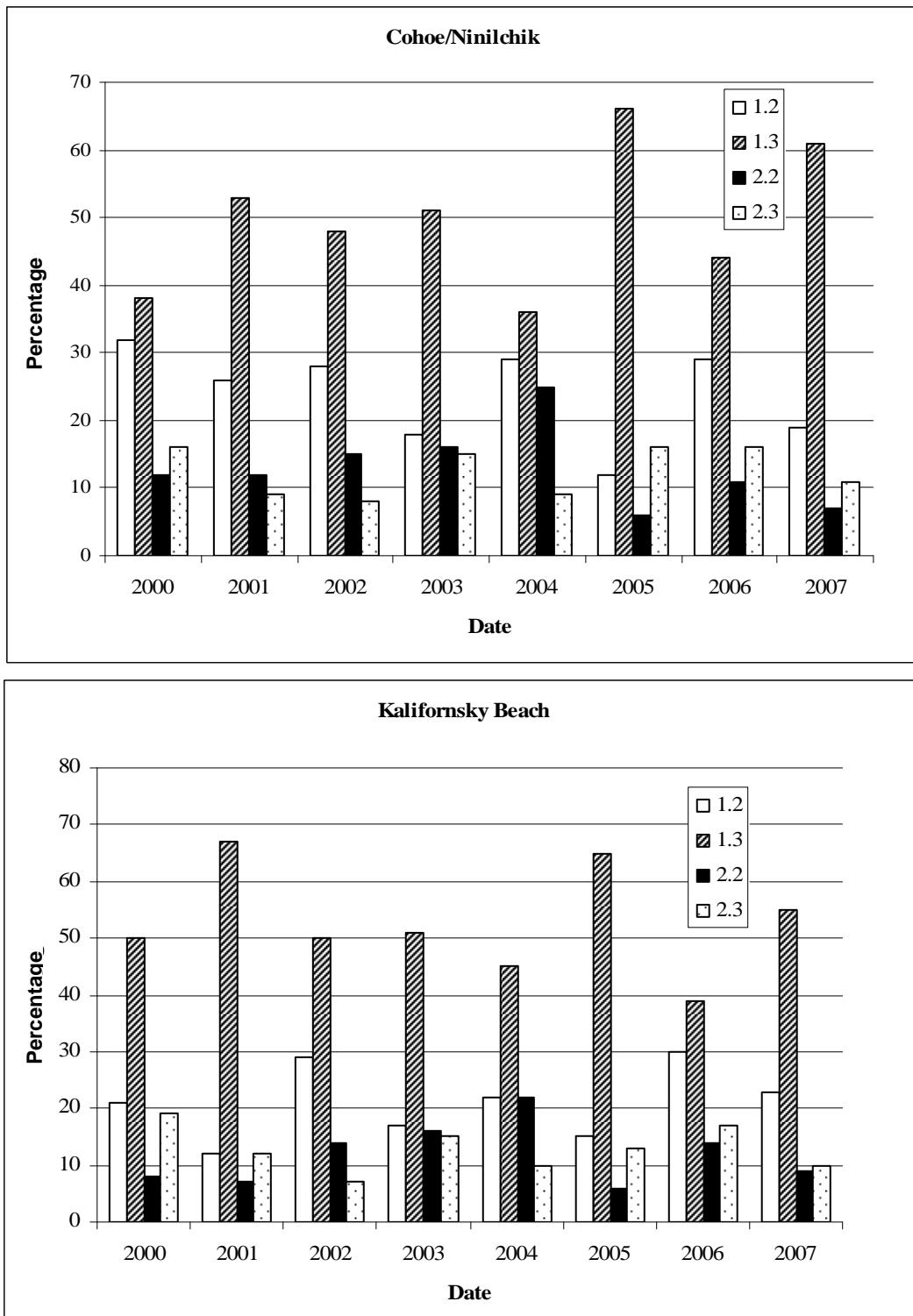


Figure 7.—Age composition in the Cohoe/Ninilchik and Kalifornsky Beach set gillnet harvests, Upper Cook Inlet, Alaska, 2000–2007.

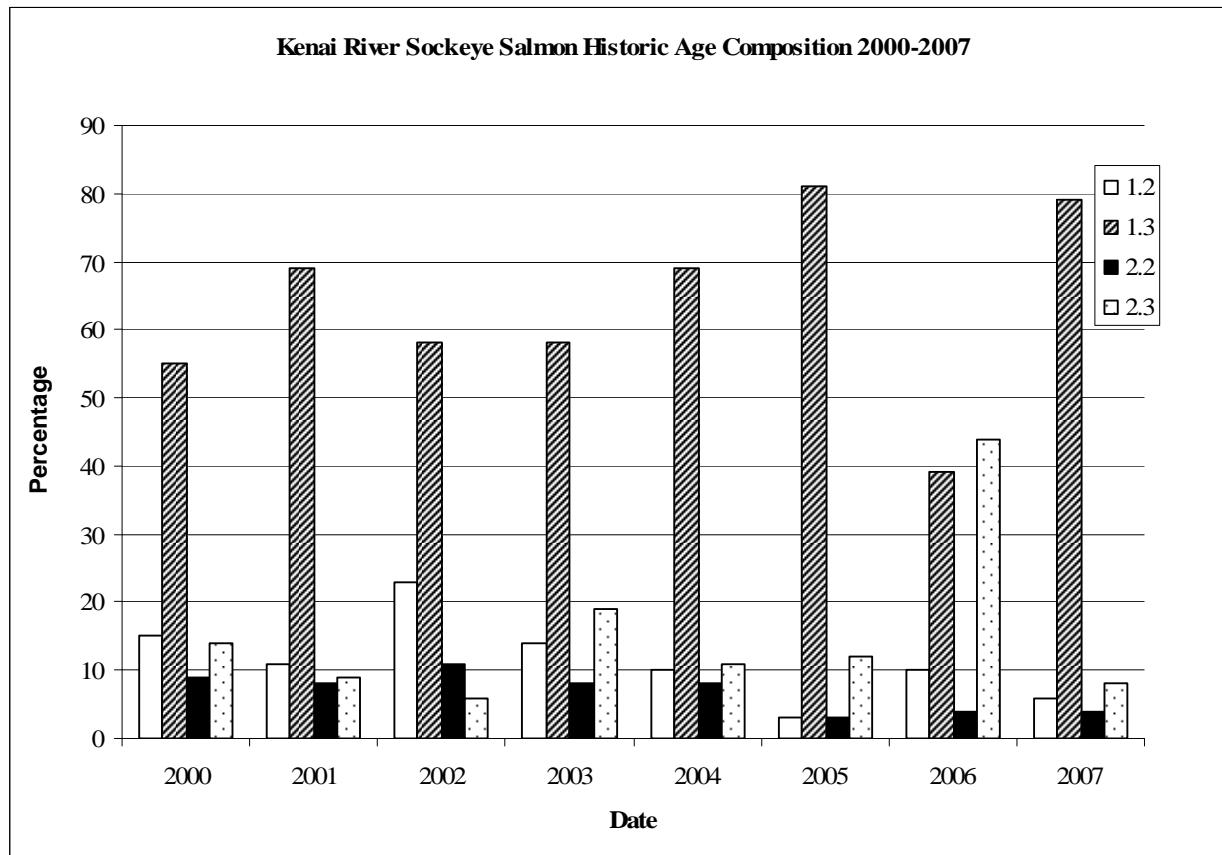


Figure 8.—Age composition in the Kenai River escapements, Upper Cook Inlet, Alaska, 2000–2007.

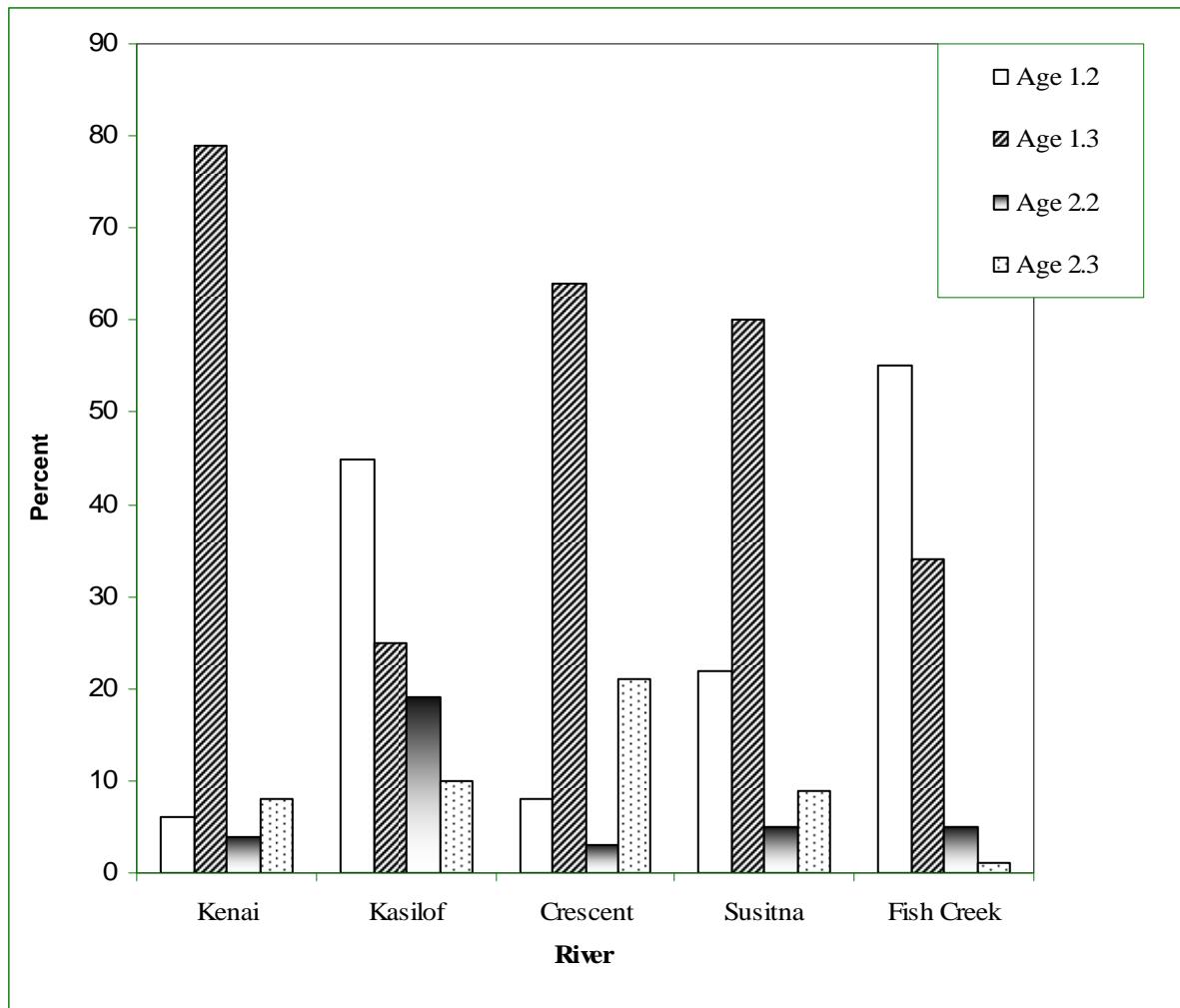


Figure 9.—Sockeye salmon escapement major age classes by river systems, Upper Cook Inlet, Alaska, 2007.